# DRAWING AND SPECIFICATION TRANSMITTAL LOCKWOOD GREENE ENGINEERS.INC.

SPARTANBURG.SOUTH CAROLINA 29304 P.O. BOX 491 (803)582-2351

TO\_Naval Facilities Engineering
Command Building N-26
Atlantic Division
Norfolk, Va. 23511
ATTN: Mr. John Grubbs Code 05

DATE July 23, 1980 JOB NO. 77239.16 JOB NAME Naval Regional Medical Center TRANSMITTAL NO. 1574 SHEET OF ORDER NO. Contract # N-62470-77-C-7526

WE ARE SENDING YOU THE FOLLOWING DATA

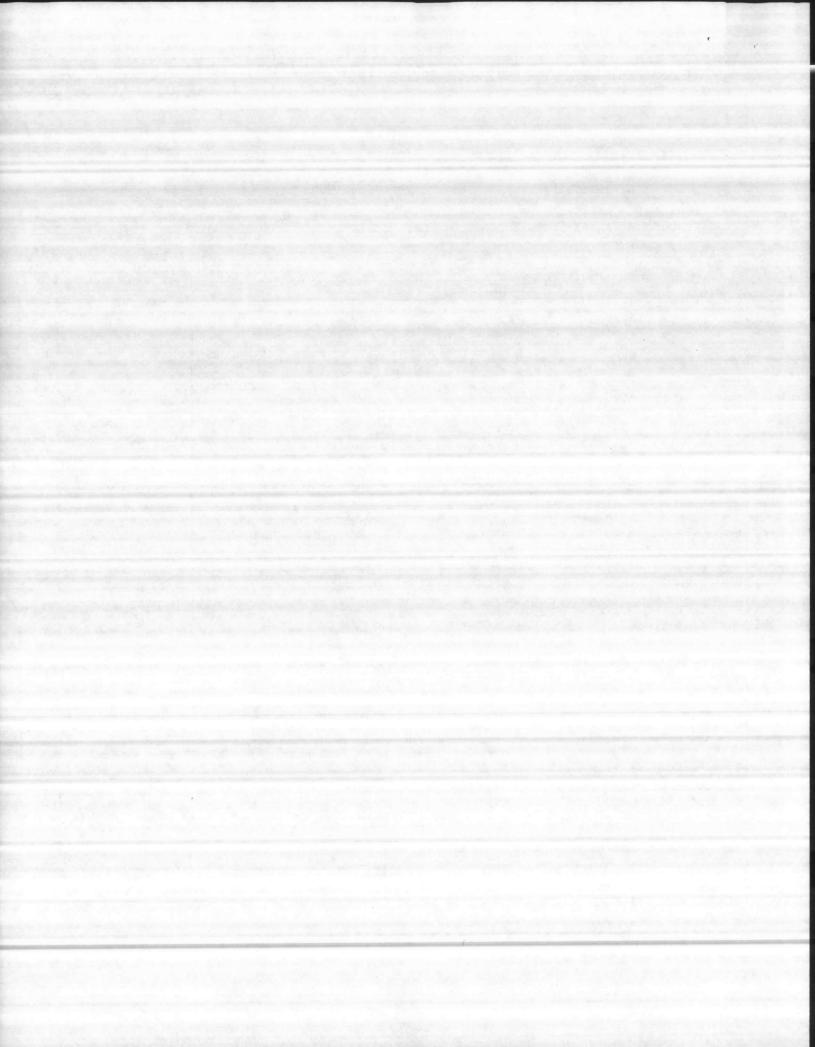
HEREWITH

UNDER SEPARATE COVER

QUAN.	DOCUMENT NO.	REV.NO.	DESCRIPTION	VENDOR	Cope
1 1 1 1 1	Letter		Of Cert Dated 6/30/80 Wall Openings Serv. Requirements Typ. Install Cat. Cuts & Specifications Arch. Planning Data Physical Properties	Xonics	R D D D

VENDOR DOCUMENTS LOCKWOOD GREENE DOCUMENTS K - NO CORRECTIONS NOTED E - BID A - INFORMATION B - REVIEW L - MAKE CORRECTIONS NOTED F - CONSTRUCTION G - PURCHASING M - REVISE AND RESUBMIT C - APPROVAL N - REJECTED (SEE REMARKS) D - REVISED DWG. (SEE REVISION) TRANS CODE COPIES TO QUAN CODE COPIES TO ONLY ROICC 1 4 Cardinal REMARKS

PLEASE ACKNOWLEDGE	RECEIPT	BY	IMMEDIATE	RETURN	OF	SIGNED	COPY	OF	THIS	TRANSMI	TTAL	
RECEIVED BY			DATE				TRAN	SMI	TTED	BY	Richard	McKnight



DEPARTMENT OF THE NAVY

RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
NAVAL REGIONAL MEDICAL CENTER
FIELD OFFICE
CAMP LEJEUNE, NC 28542

TELEPHONE NO. 919-353-3455

IN REPLY REFER TO: AEY:jj N62470-77-C-7526

AUG 1 8 1980

Cardinal Contracting Co., Inc. Post Office Box 8408 Camp Lejeune, North Carolina 28542

RE: Contract N62470-77-C-7526, 205
Bed Hospital, Naval Regional
Medical Center, Camp Lejeune,
North Carolina

SUBJ: Items X-5300, X-5301, X-5302, Transmittal No. 611-616

#### Gentlemen:

This is in response to the inquiry put forth in the subject transmittal.

The Daylight Processing System that the Government is furnishing as Category "E-1" Equipment is the Dupont Cronex Daylight Film Handling System. Item X-5301, X-ray Film Processor, specified in Section 11757, paragraph 7.16 is required to interface with this Daylight Processing System.

The Government Furnished Chest X-ray Apparatus is General Electric Medical Systems Chang Chest Unit, Model B3513F. The Film Receiver and Transport Unit is Model B3513D.

The above information should allow you to determine the interfacing between the processor and Government Furnished Equipment.

If there are any questions, please contact us.

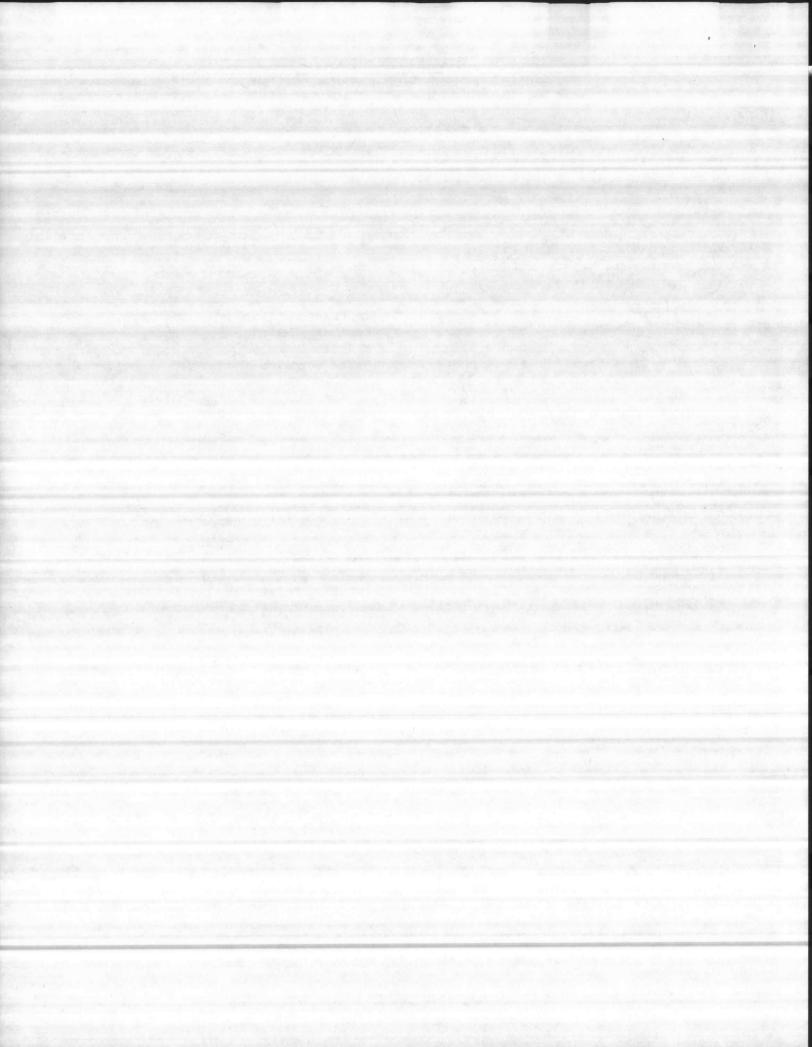
Sincerely,

R. D. COLEY
Assistant Resident Officer in Charge
of Construction

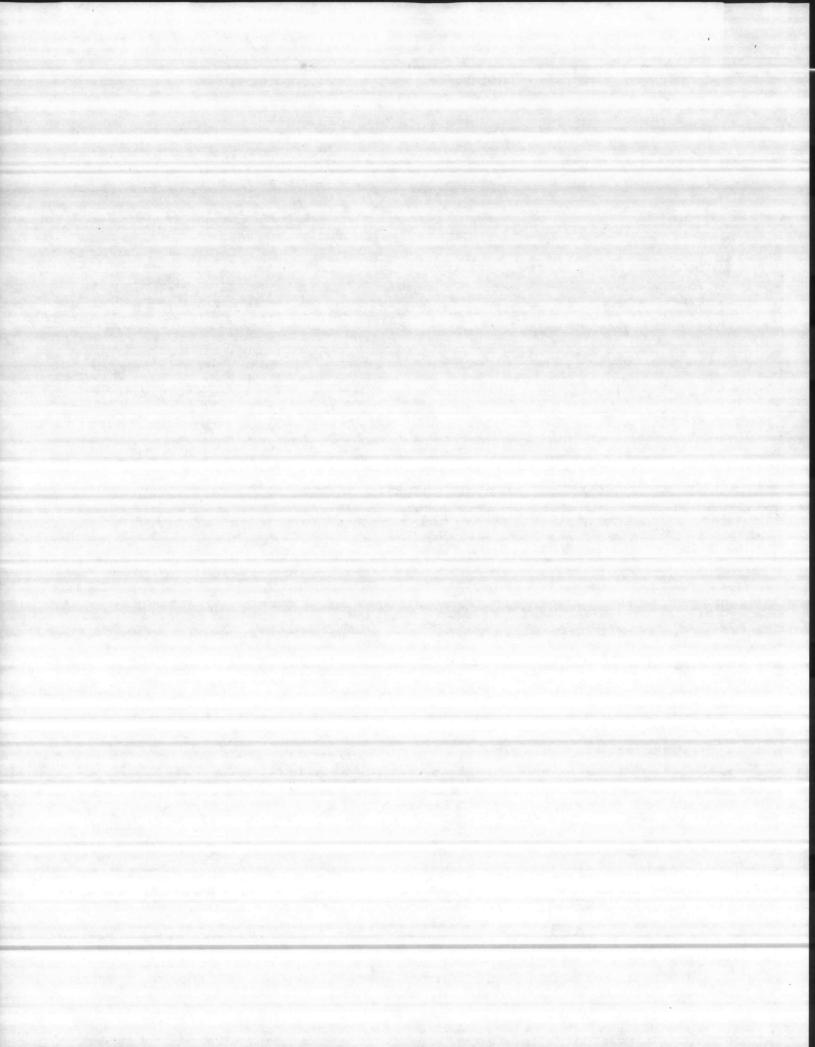
Copy to:

LANTDIV (Code 05)

Gen. Corr.
Sub, #611-616
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# NAVAL REGIONAL MEDICAL CENTER

CAMP LEJEUNE, N. C. 28542

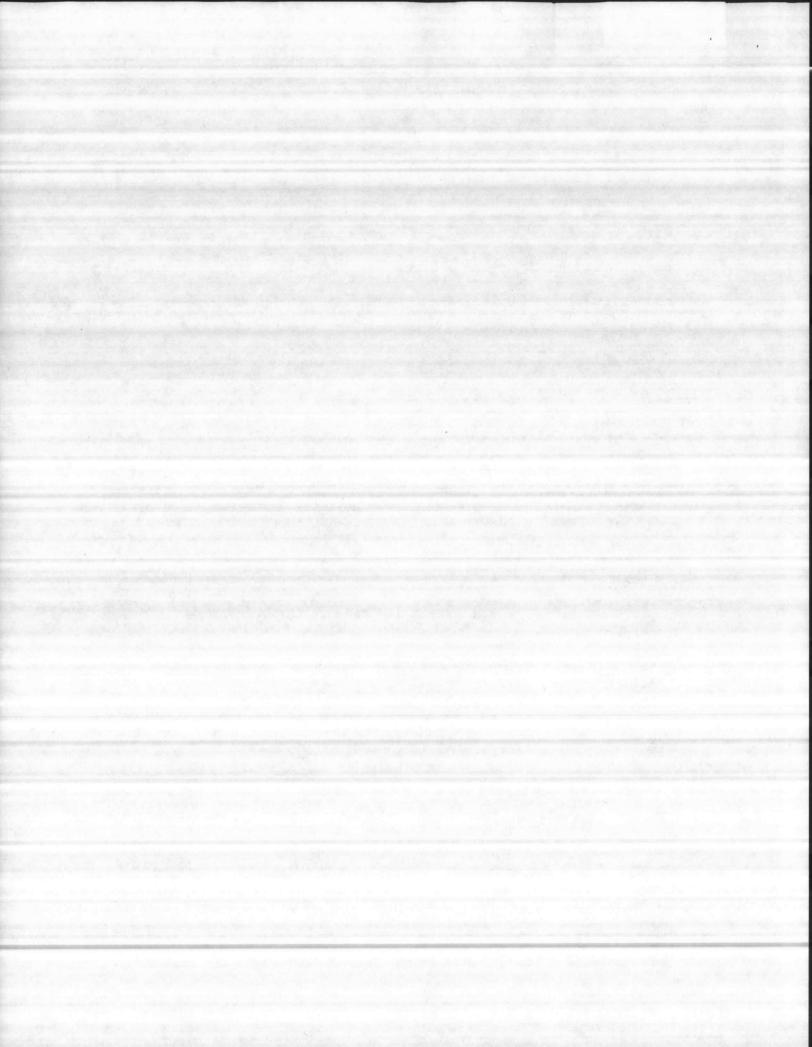
MCLO:HEP:ca 17 Jul 1980

MEMORANDUM FOR THE RESIDENT OFFICER IN CHARGE OF CONSTRUCTION, NAVAL REGIONAL MEDICAL CENTER, FIELD OFFICE, CAMP LEJEUNE, NORTH CAROLINA

Subj: X-ray Film Processing Equipment

Ref:

- (a) Contract Specifications
- (b) Fonecon btwn Mr. Bill McKinny (DuPont X-ray Systems Engineer, Wilmington, Del., 302-999-4258) and LCDR Phillips of 10 Jul 1980
- (c) Fonecon btwn Mr. John Clark (General Electric Medical Systems Office, Charlotte, N.C., 704-537-8544) and LCDR Phillips of 16 Jul 1980
- Encl: (1) Cardinal Contracting Co. Submittal No. 611-616 for subject equipment
- 1. Enclosure (1) has been reviewed and the following comments on the Xonics X-ray Processing Equipment are offered:
- a. Section 11757-7.15.1 of reference (a) requires a 90 second per film processing time on all units with the capability of processing at least 230 14" x 17" films per hour. The Xonics information indicates a minimum 140 second process cycle and 220 14" x 17" film per hour capacity. Neither of these meets the Contract requirements. The contractor has lined through the 140 second cycle and inserted 90 seconds. More proof than a pen and ink change is required to substantiate this capability. No modification to the hourly capacity of the Xonics Unit was made. It still does not meet the Contract requirements.
- b. The processors offered under Section 11757-7.16 must be capable of interface with the DuPont Cronex Daylight Film Handling System provided by the government as Category "E-1" Equipment. DuPont does not manufacture an Installation Kit that would allow their "CDCA" Daylight Combination Adaptor to be installed on the Xonics Processor. This was confirmed during reference (b). Mr. McKinny indicated that this interface could be achieved, but only through the use of an Installation Kit specially designed and manufactured for this purpose. He also pointed out that this interface would negate the air activated switch in the processor's automatic replenishment system. Sections 11757-7.16.1 and 11757-7.16.2(b), of reference (a), clearly place the responsibility for providing the "adaptors and accessories required for compatible and permanent connection to the Daylight Processing System" on the contractor. Enclosure (1) does not address this requirement.

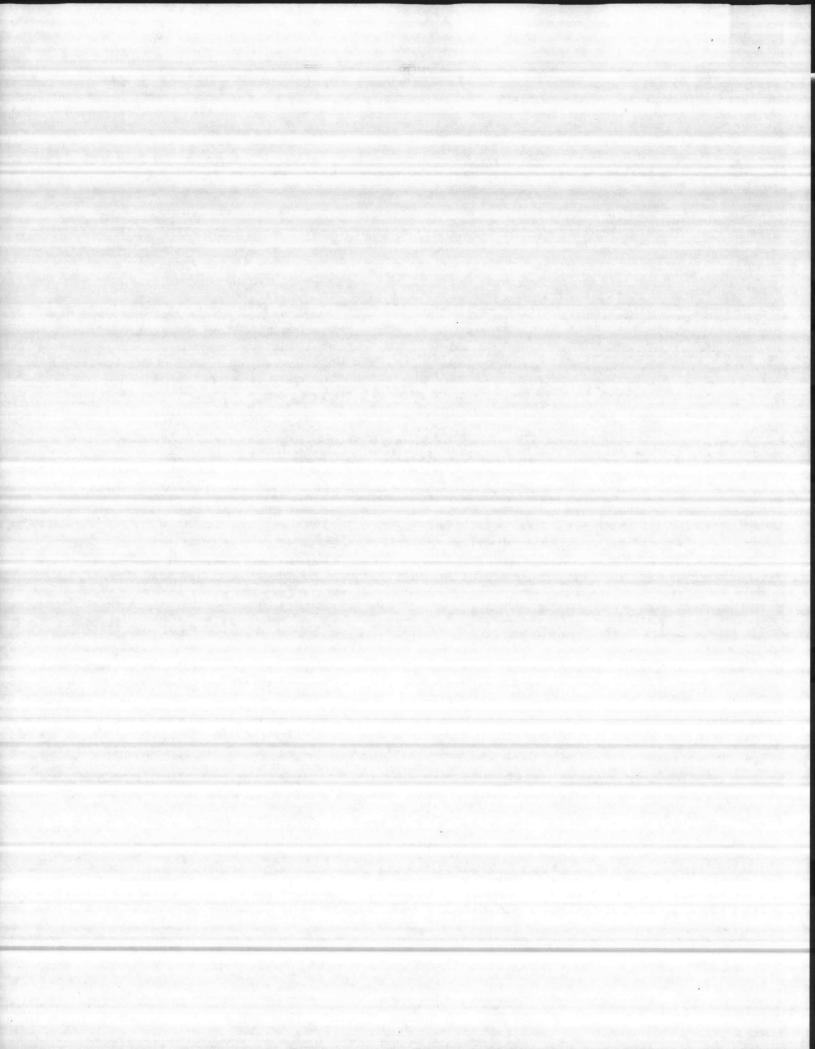


- The processor offered under Section 11757-7.17 must be capable of interface with a government furnished chest x-ray apparatus (General Electric Medical Systems Change Chest Unit Mod. B3513F and Film Receiver and Transport Unit Mod. B3513D). This interface was discussed with General Electric personnel during reference (c). G.E. does not have the capability of interfacing with the Xonics Processor. G.E. went so far as to contact the processor manufacturer, Henry Hope. Hope does not have an interface kit either. While nothing is impossible, given sufficient design time and money, Hope indicated that they would not be interested in undertaking the engineering involved to develop an installation kit. The Hope representative also referred to the problem of the air activated switch on the Xonics' replenishment system mentioned by DuPont. Sections 11757-7.17.1 and 11757-7.17.2(b), of reference (a), place the responsibility for the "adaptors and accessories required for compatible and permanent connection to the chest x-ray apparatus" on the contractor. Enclosure (1) does not address this requirement.
- 2. Thus, the total design burden for what appears to be a significant engineering problem falls completely on Xonics' shoulders. Considering the critical importance of the processor to the effectiveness and efficiency of the hospital's diagnostic x-ray capability, this interface cannot be left to chance. Section 11700-3.2.2, of reference (a), requires that all items of equipment proposed be of the latest design and in current production. Based on information from DuPont and G.E., this is not the case for parts necessary to provide the required interface. If the contractor persists in his offer of the Xonics Processor, it is requested that the government exercise its right under Section 11700-3.2.3 for a factory inspection to determine the qualification of Xonics to provide equipment which will meet the requirements of the Contract Specifications.
- 3. The DuPont and G.E. representatives listed as references are willing to discuss this problem with any interested party. Due to the critical importance of the processor, please keep this office informed of problems, or progress, in the approval process.

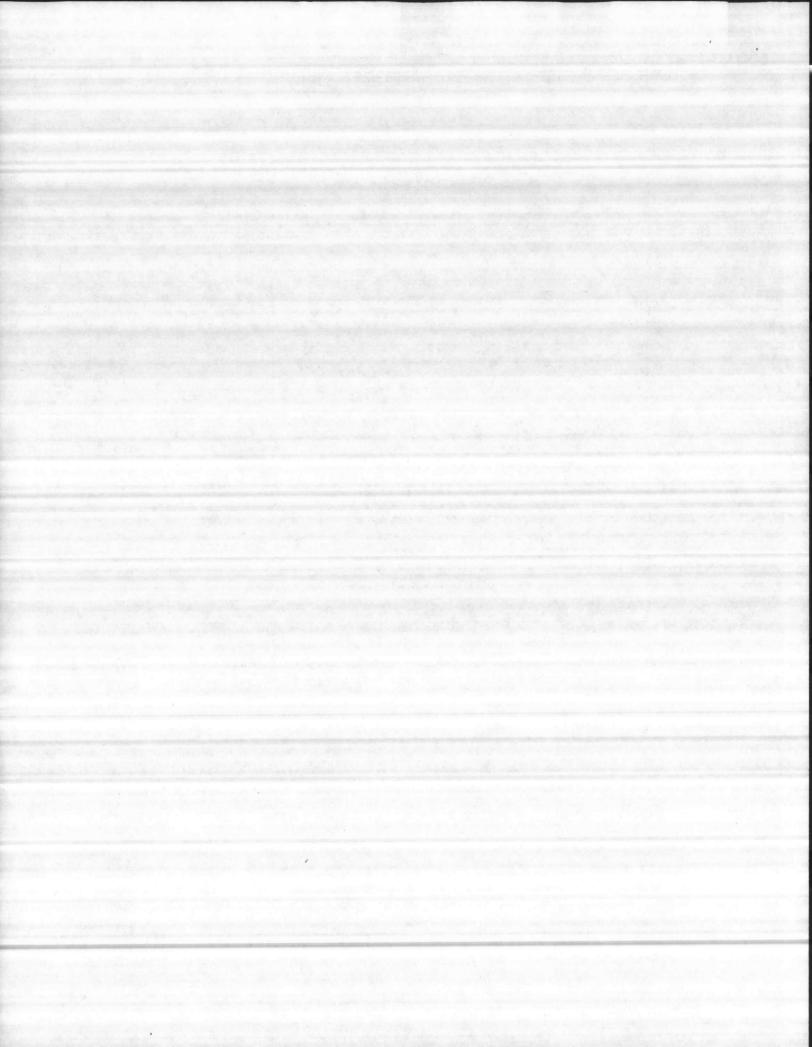
H.E. PHILLIPS

LCDR, MSC, USN

Medical Construction Liaison Officer



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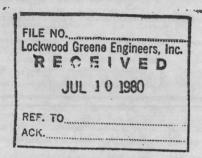
June 30, 1980

Cardinal Contracting Company, Inc. P.O. Box 8408 Camp Lejeune, North Carolina 28542

ATTN: Bill Haymaker

RE: P.O.NHCL-71118

Dear Mr. Haymaker:



Please accept this letter as certification that the Xonics Hi-Cap X-Ray Film Processor will meet the specifications for items X-5300, X-5301 and X-5302 as required by Section 11757 Radiographic Darkroom Equipment.

The only "Grey" area remaining is the connection of the Xonics Processor to the government furnished Chest X-Ray Apparatus. We must have further information regarding manufacturer and model numbers before a final determination can be made.

Xonics presently has local service in the Jacksonville- Camp Lejeune area. Our service engineer, Mr. Ron Kee, is school trained on our processor and has the necessary experience to handle routine servicing. Parts are available from our Durham or Winston-Salem warehouses. Additionally, Mr. Kee will be maintaining a car stock of parts.

The Xonics Hi-Cap Processor is a heavy duty film processor designed to accomodate the heavy workloads anticipated in large X-Ray main departments.

The copies of Manufacturers Literature, Catalog Cuts, Installation Information and Typical Installations are enclosed. If further information is required, please contact this office.

Respectfully,

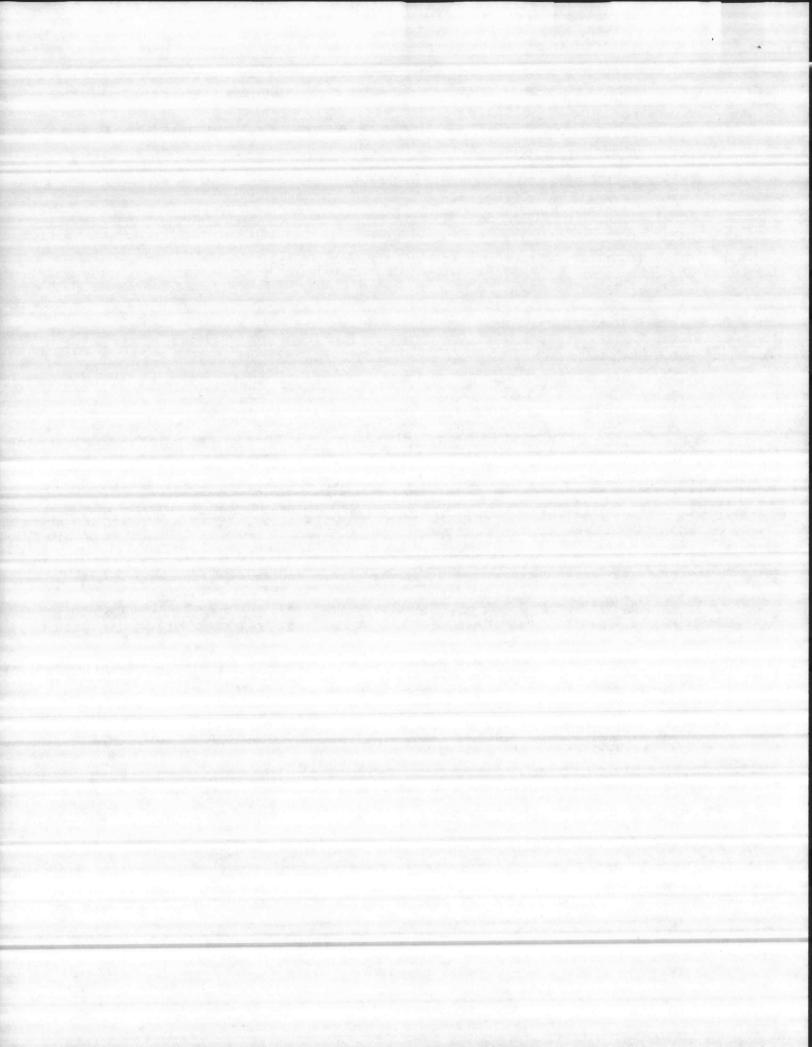
Dan Osborne Sales Engineer

enclosure

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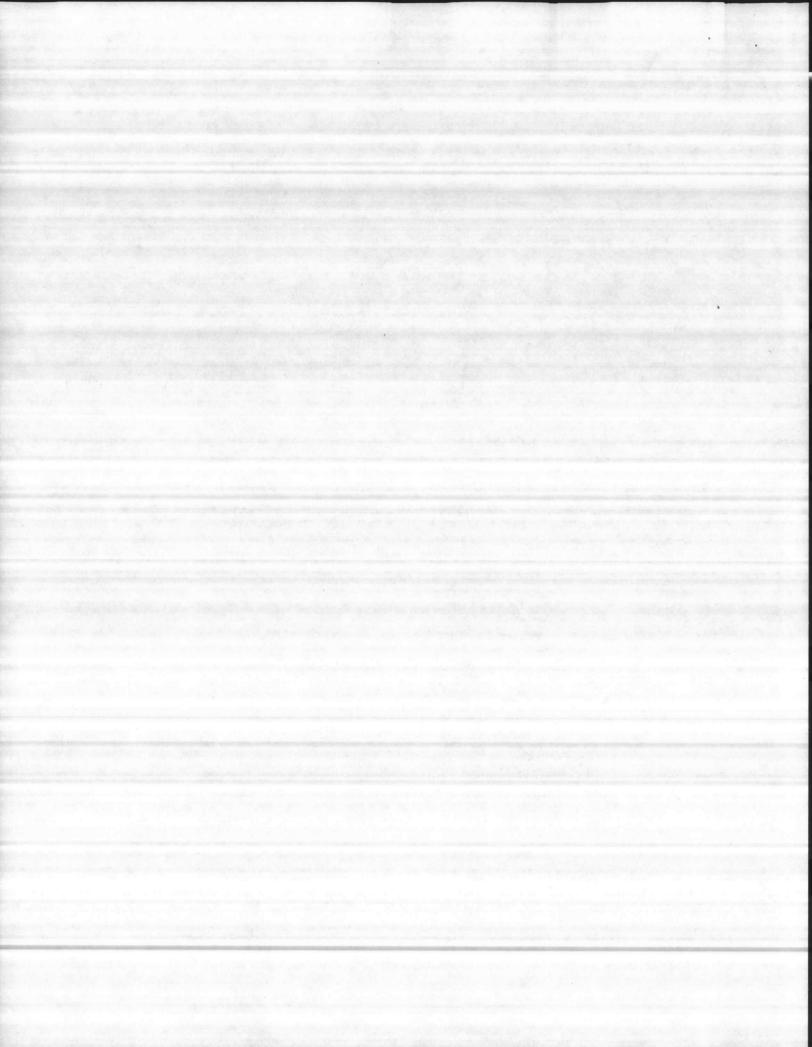




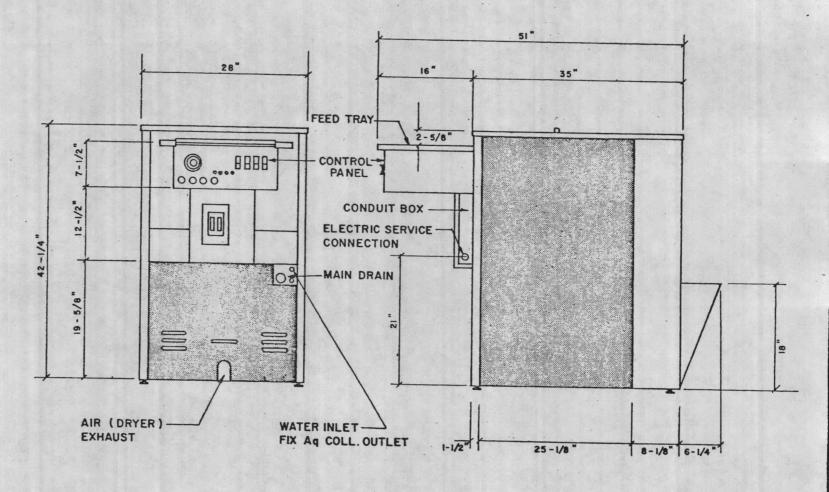
# OFFICE CORRESPONDENCE WINSTON-SALEM, N. C.

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SUBJECT:		DATE:	
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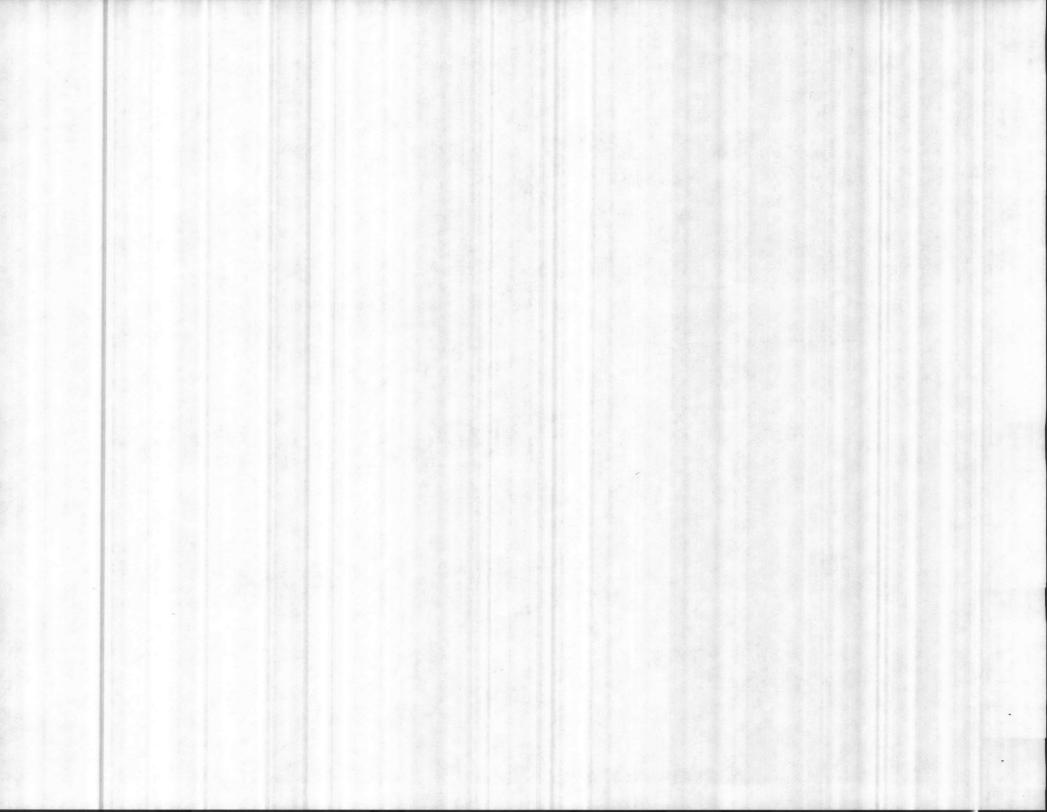


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#### NOTES

- I. SHADED AREAS REPRESENT EASELY REMOVABLE PANELS
- 2. ELECTRIC SERVICE MAY BE CONNECTED TO EITHER SIDE OF CONDUIT BOX.



### 2.0 Scope of Performance:

The Profexray Processor has a continuous roller transport system and may be arranged for "90 second" or "3½ minute" operation. It has a capacity of 325 intermixed films per hour at "90 second" and 160 intermixed films per hour at "3½ minutes".

It is designed to process screen type medical x-ray film, 4" x 4" through 14" x 36"; roll film up to 17" wide; using Profexmatic X-Ray Processing Chemicals, or other standard commercial automatic x-ray processing solutions. Operating temperatures and replenishment rates will depend on the type of film, speed of the processor, and the chemistry being used.

# 3.0 Architectural Requirements:

## 3.1 Processor Positions:

The processor may be installed for through-the-wall operation in one of three different positions or completely inside the dark room. The processor can be installed with either or both sides against a wall. It is recommended that space be provided on all sides for service; minimum clearance on all sides should be 12 inches. For ease of cleaning and maintenance, larger clearances are recommended. (Figures No. 2, 3, and 4)

# 3.2 Replenisher Tanks:

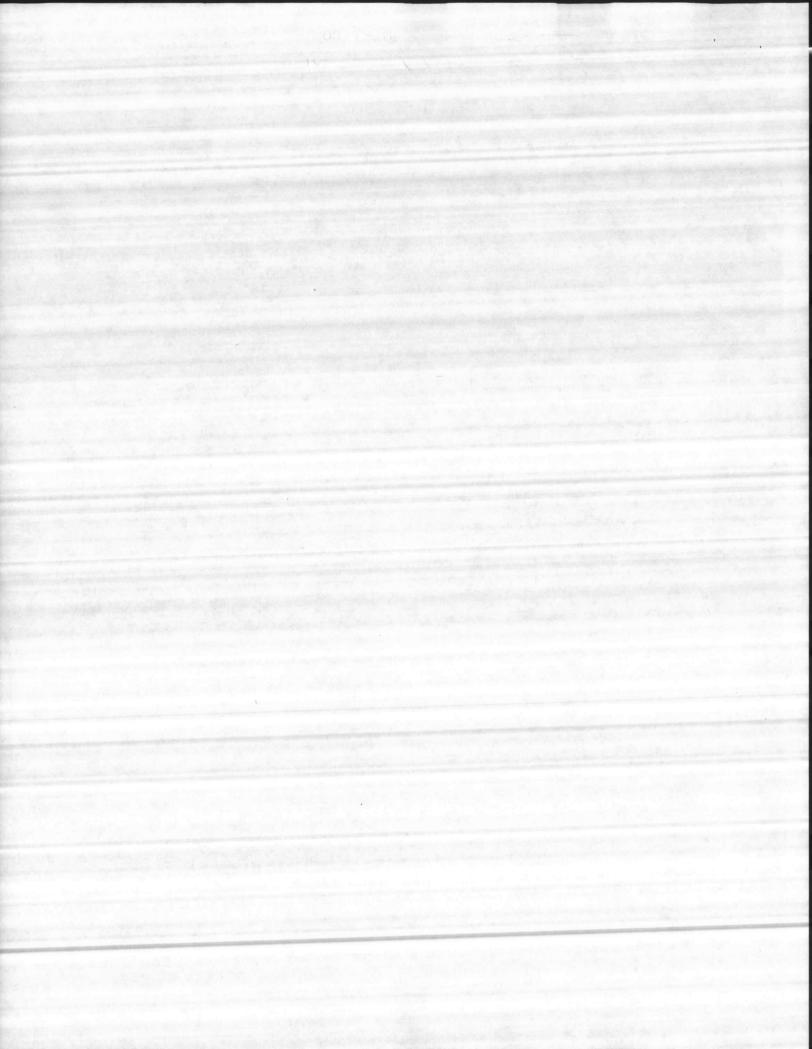
Additional space must be provided for the replenisher tanks; the amount of space necessary is governed by the size of the tanks desired—14 gallon, 25 gallon, or 50 gallon. The approximate dimensions of the tanks are as follows: 14 gallon - 15" diameter by 21" high; 25 gallon - 18" diameter by 27" high; 50 gallon - 22" diameter by 32" high. (Figure No. 5)

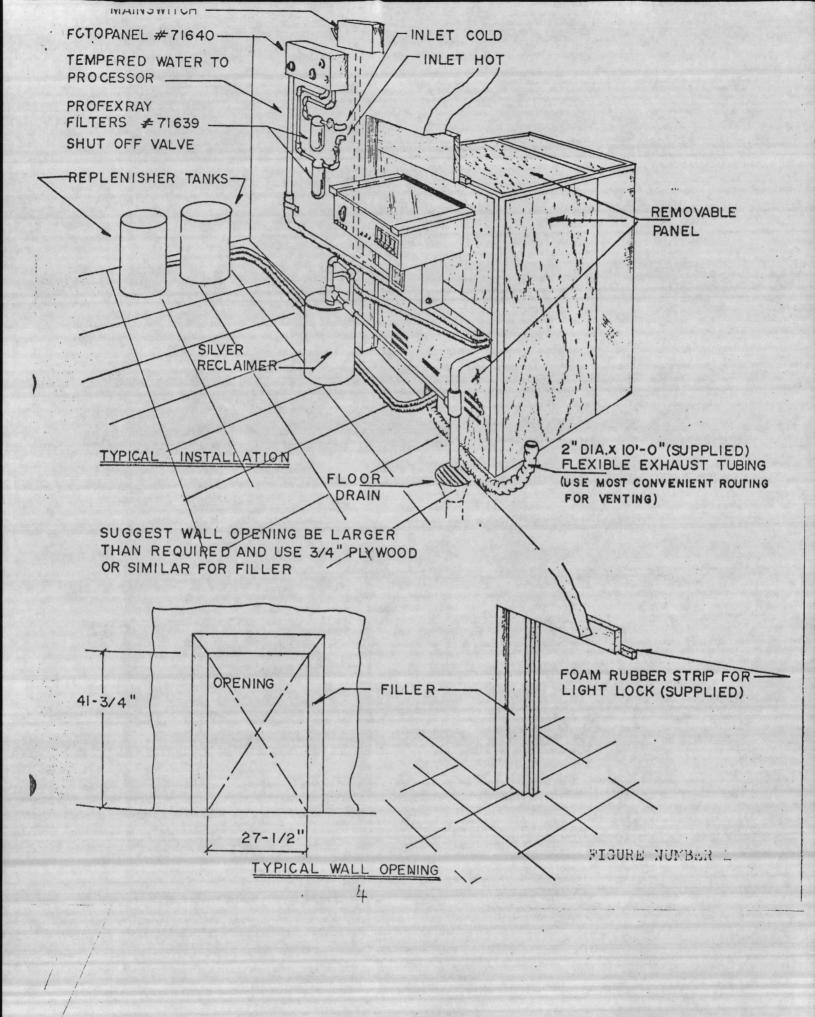
Replenisher tanks should be located on the same floor level as the machine, and should be within 15 feet of the processor. Careful consideration must be given to the routing of the replenisher lines from the replenisher tanks to the processor.

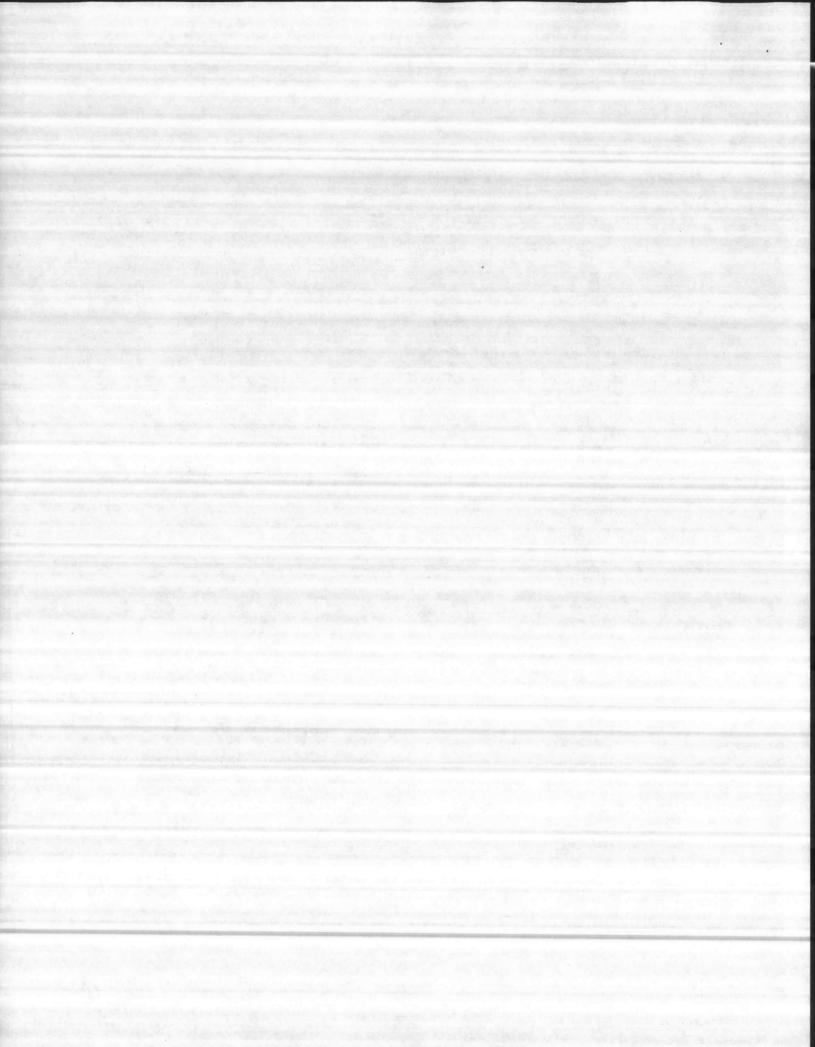
# 3.3 Plumbing Requirements: (Figure No. 3)

The water requirements are a minimum of one and one-half gallons per minute through a Profexray Fotopanel, P/N 71640, (or a valve of equal quality) a thermostatically controlled mixing valve (not included). It is recommended that Profexray Filter, P/N 71639, (not included) be installed on both the hot and cold incoming water lines before the mixing valve. Water lines must be installed according to local codes. The water is connected to the processor through a ½" male connector which is connected to a 30" x 3/8" 1. D. plastic hose.

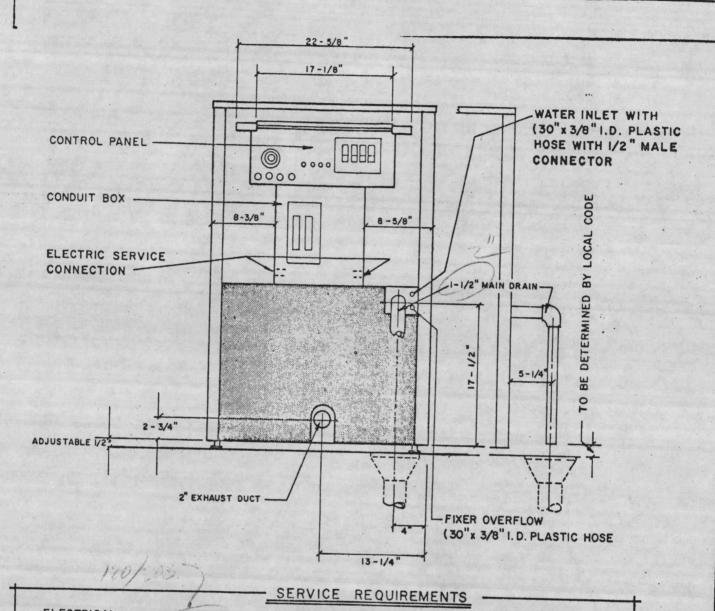
One 4-inch open floor drain is recommended to be installed on the front (feed end) right side of the processor. However, a drain which will accommodate a normal flow of 1½



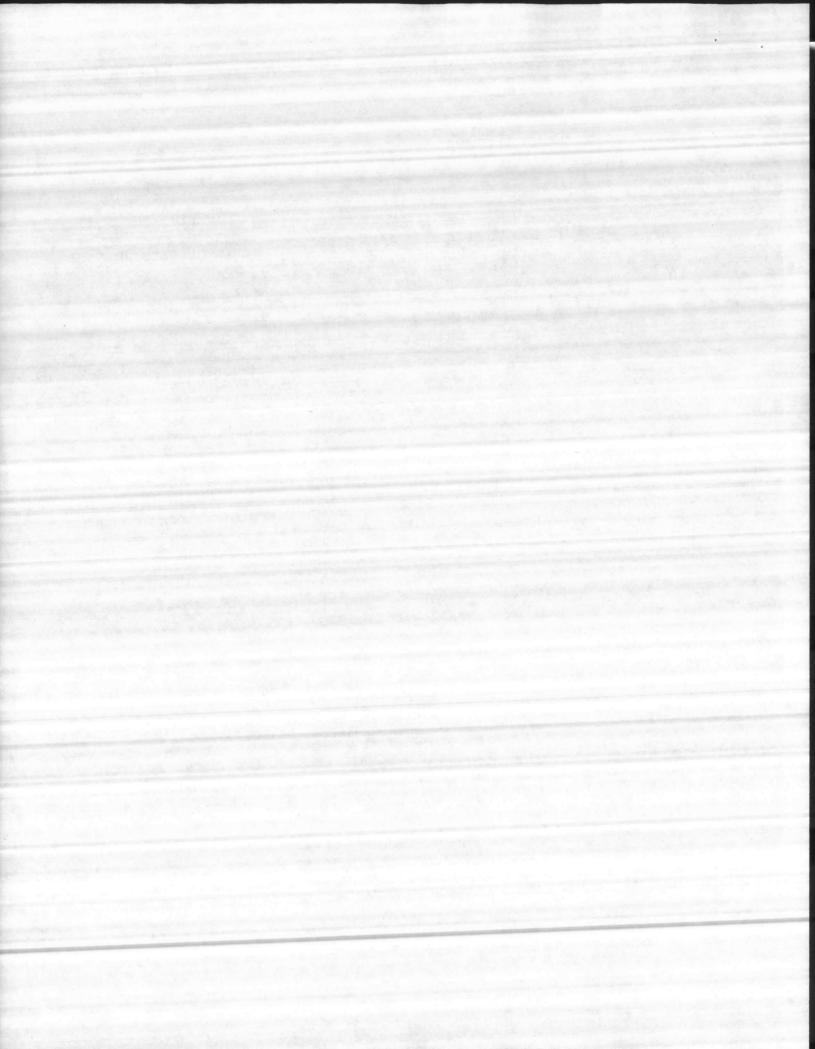




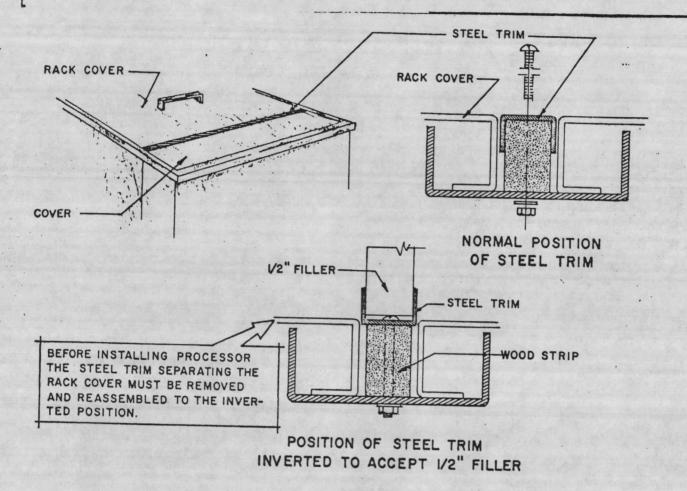
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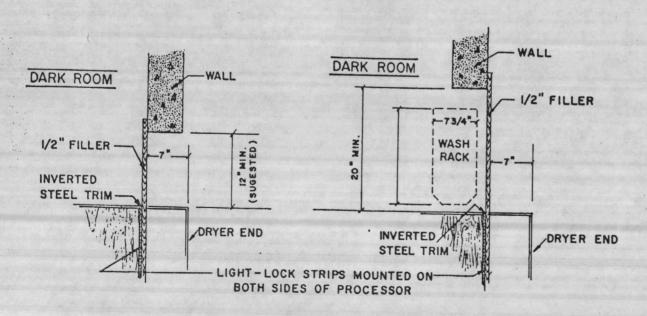


ELECTRICAL 220 VOLT AC, 3 OR 4 WIRE ( # 10 MIN. SIZE) SINGLE PHASE AT 60 HZ. 40 AMPS. MAX .; THROUGH A FUSED DISCONNECT SWITCH. 1-1/2" G.P.M. TEMPERED TO SPECIFIED REQUIREMENTS OF PROCESSOR. WATER SUGGEST USING FOTOPANEL # 71640 ( OR VALVE OF EQUAL QUALITY) DU PASHI) AND PROFEXRAY FILTERS # 71639 ( OR FILTERS OF EQUAL QUALITY ) ON INCOMING LINES. BOTH ITEMS SUPPLIED BY CUSTOMER. DRAIN I-I/2 G.P.M. (NORMAL); 8 G.P.M. (WHEN DRAINING TANKS) 100 C.F.M. MAXIMUM AT 150°F. MAXIMUM 10'-0" LENGHT OF FLEXIBLE AIR EXHAUST TUBING SUPPLIED WITH PROCESSOR FOR AIR EXHAUST. WEIGHTS NET WEIGHT ( UNCRATED ) 425 LBS. APPROX. OPERATING WEIGHT WITH SOLUTIONS 625 LBS. APPROX. SHIPPING WEIGHT ( CRATED ) 510 LBS. APPROX. UNCRATED PROCESSOR WILL PASS THROUGH AN OPENING OF 29" x 44" PASSAGE



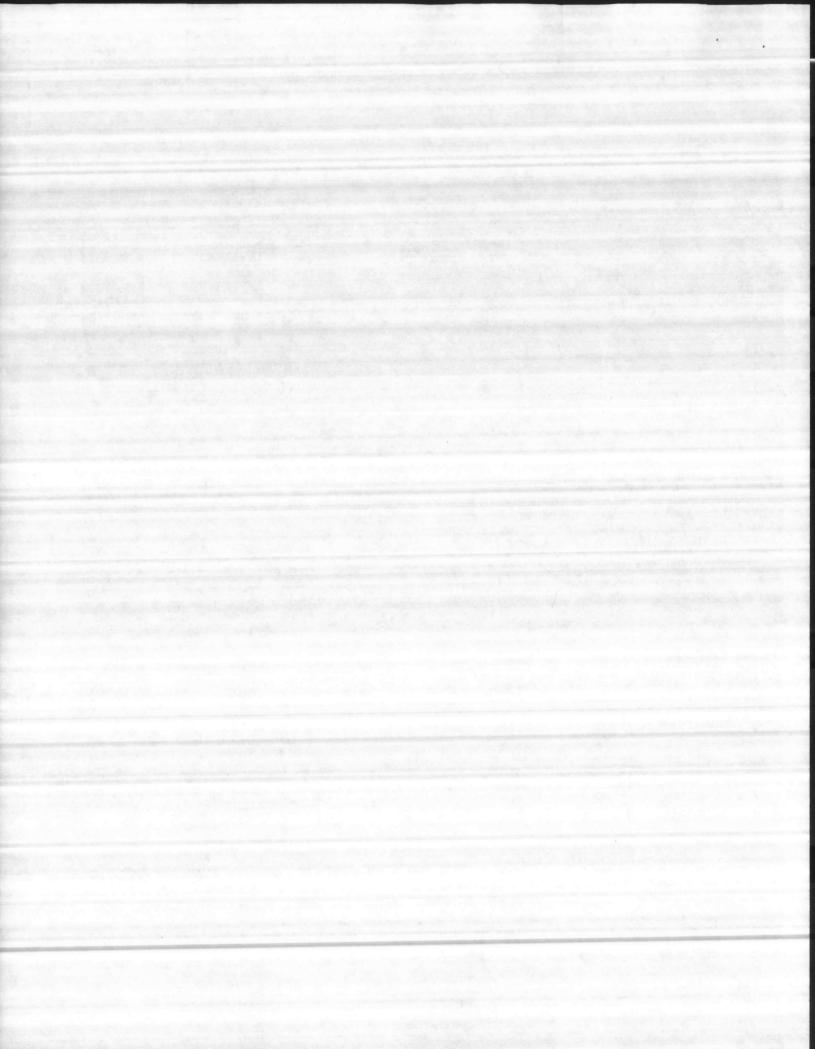
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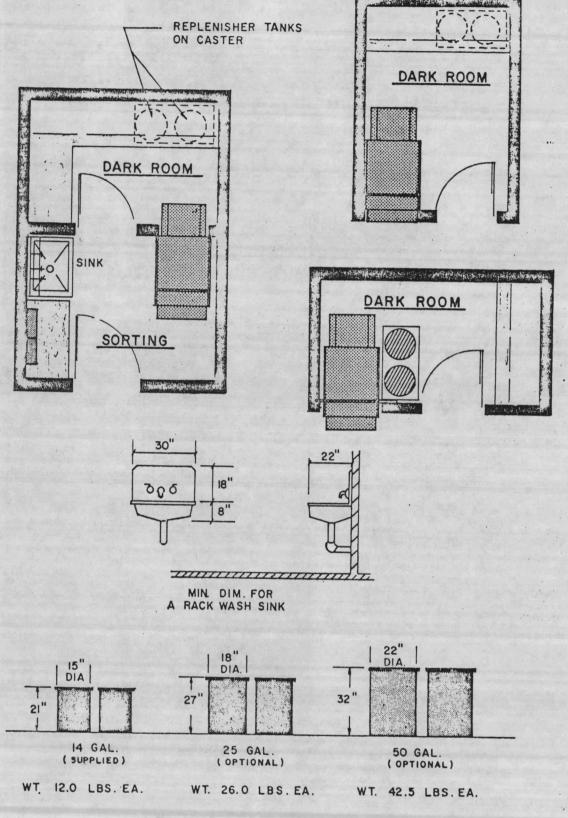




INSTALLATION TYPE "A"

INSTALLATION TYPE "B"

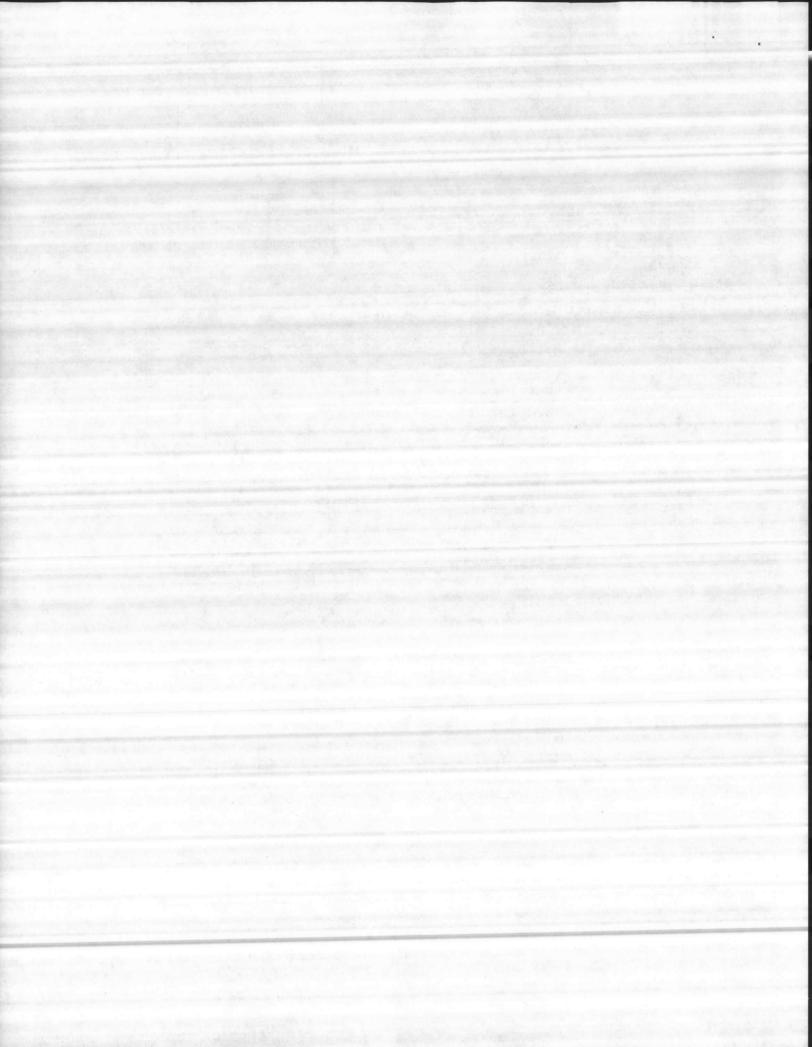




REPLENISHER . TANKS

FIGURE NO. 5

-7.



gallons per minute and a draining flow of 8 gallons per minute will be adequate.

Suitable accommodations, such as a large sink or wash tank with a hose connection, must be installed adjacent to, or near, the processor to facilitate recommended cleaning procedures of the roller racks and components.

A hose connection should be available near the replenisher tanks to facilitate mixing solutions.

NOTE: Do not use brass or copper in the drain lines.

## 3.4 Exhaust:

A ten foot long by two inch diameter flexible vinyl tube and connector is supplied with the processor. Connect this to the short length of exhaust tubing through the exhaust outlet opening in the center of the access panel. This should be connected to a vent duct to remove excessive heat and moisture from the processor area. (Figure No. 2 and 3)

# 3.5 Electrical Specifications:

The processor requires 220 volt single phase at 60 Hz. supplied through a 40 amp. fused disconnect switch.

Supply leads should be 2 No. 10 leads for the 220, 1 No. 10 for neutral, and 1 No. 10 for ground. On 3-wire power systems, use 3 No. 10 leads. In all cases, compliance with local, national, and/or UL standards is required.

For connections to the processor, see Figure No. 6.

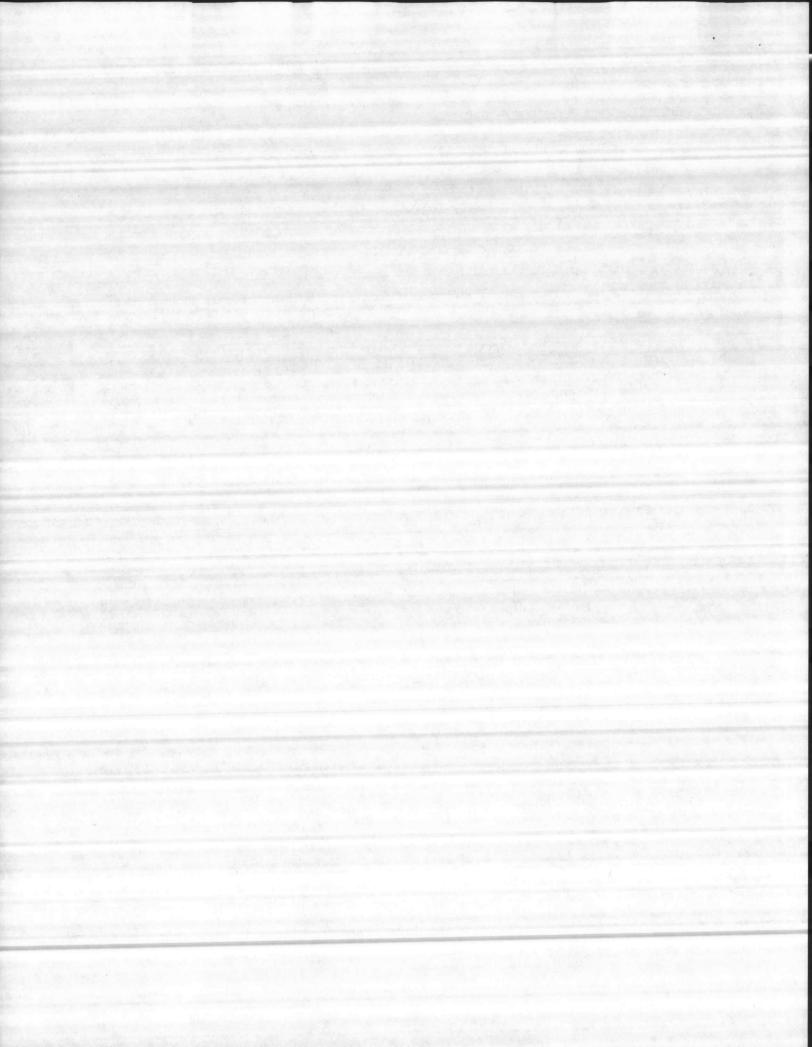
NOTE: The developer thermostat is unplugged; do not connect the plug until solutions are in the processor.

# 4.0 Unpacking and Handling:

Remove the strapping, open the carton top, and remove the filler material. Lift the carton from the skid. Check the contents of the case against the packing list. Before removing the cross-overs and racks, take note of the position of the various components as the processor is set up for operation before leaving the factory.

NOTE: Follow the installation instructions in Sections 5 and 6 for start up.

Do not remove the processor from the skid until you are close to the installation site. Note that the developer thermostat is unplugged. Do not connect the plug until the solutions are installed in the processor.





#### OFFICE CORRESPONDENCE WINSTON-SALEM, N. C.

TO: .	COPIES TO:	
FROM:		
SUBJECT:	DATE:	

TTEMS X.5300, X-5301, X-5309

FILE NO.
Lockwood Greene Engineers, Inc.

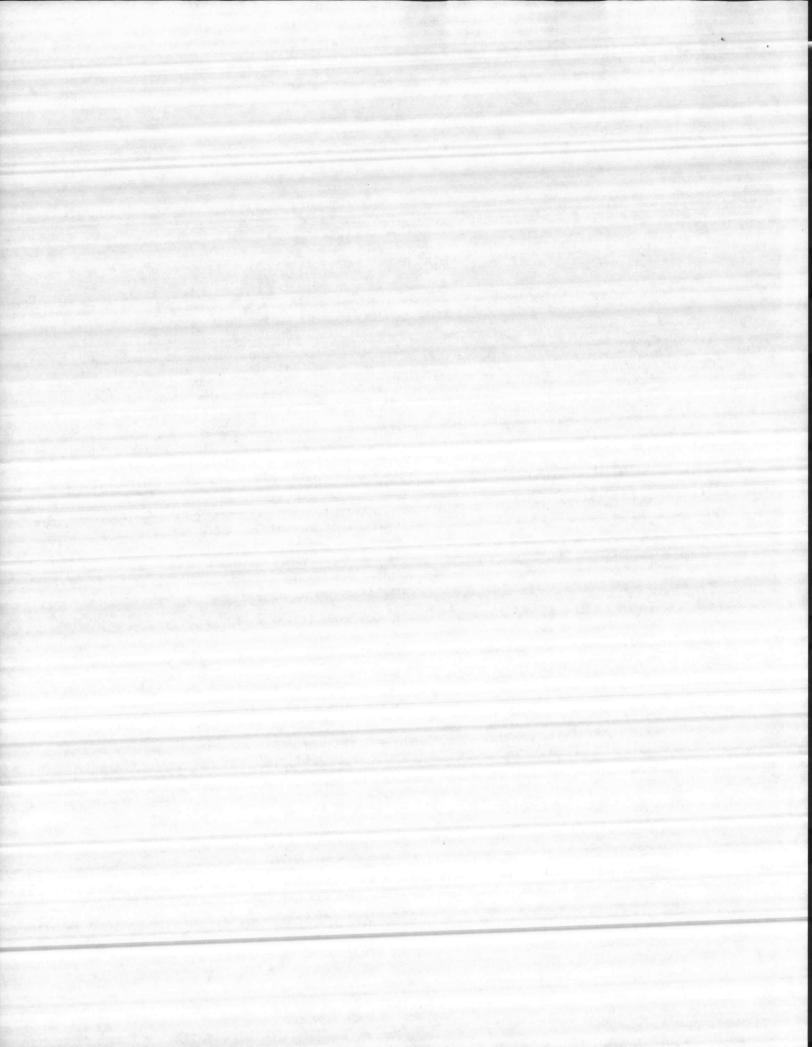
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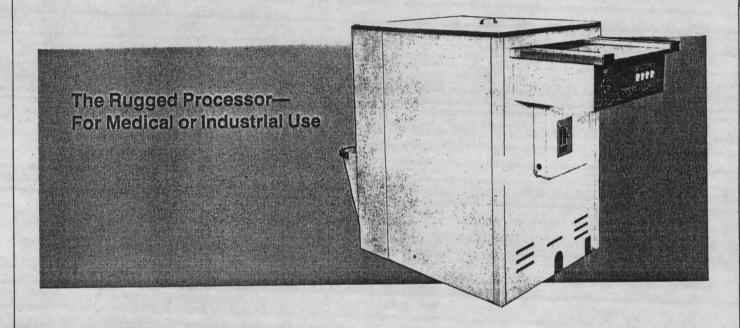
N-62470-77-C-7526

"It is hereby certified that the (material) (equipment) shown and marked in this submittal is that approved/proposed to be incorporated into Contract Number \_\_\_\_\_\_\_, is in compliance with the contract drawings and specifications, and can be installed in the allocated spaces, and is (approved for use) (submitted for Government approval).

CARDINAL CONTRACTING CO.



# **XONICS HI CAP PROCESSOR**



When the demands of your x-ray department are large ... and your present processor is not up to the task, demand the Xonics Hi-Cap Automatic Film Processor.

The Hi-Cap is ruggedly built to withstand the rigors of an active radiology department. It can process up to 400 films of mixed sizes each hour for more efficient patient flow. The continuous film transport system features a simplified rack design which eliminates the need for periodic adjustments.

Virtually all medical x-ray films are easily and efficiently processed by the Hi-Cap. It will accept sheet films from 4" × 5" to 14" × 36,", and roll films up to 14" wide. You can order your Hi-Cap with the standard second, or optional 3.5 minute or 7 minute processing cycles. There is a variable speed option available.

The automatic replenishment sensor features a unique airactuated switch which eliminates physical contact with the film. There is no possibility of the films "hanging up" or being scratched.

#### HI-CAP PROCESSOR FEATURES INCLUDE:

- Accurate developer and dryer temperature controls
- Simplified film path with no crossover rollers.
- Automatic replenishment system.
- Wash water recirculation pump allows low water consumption.
- High output recirculation system maintains solution uniformity and provides optimum mixing throughout the processing cycle.

- Space-saving design for installation in virtually any location, coupled with easy utility hook-up.
- Standard 25 gallon replenisher tanks included. Capacityincreasing 50 gallon tanks available.

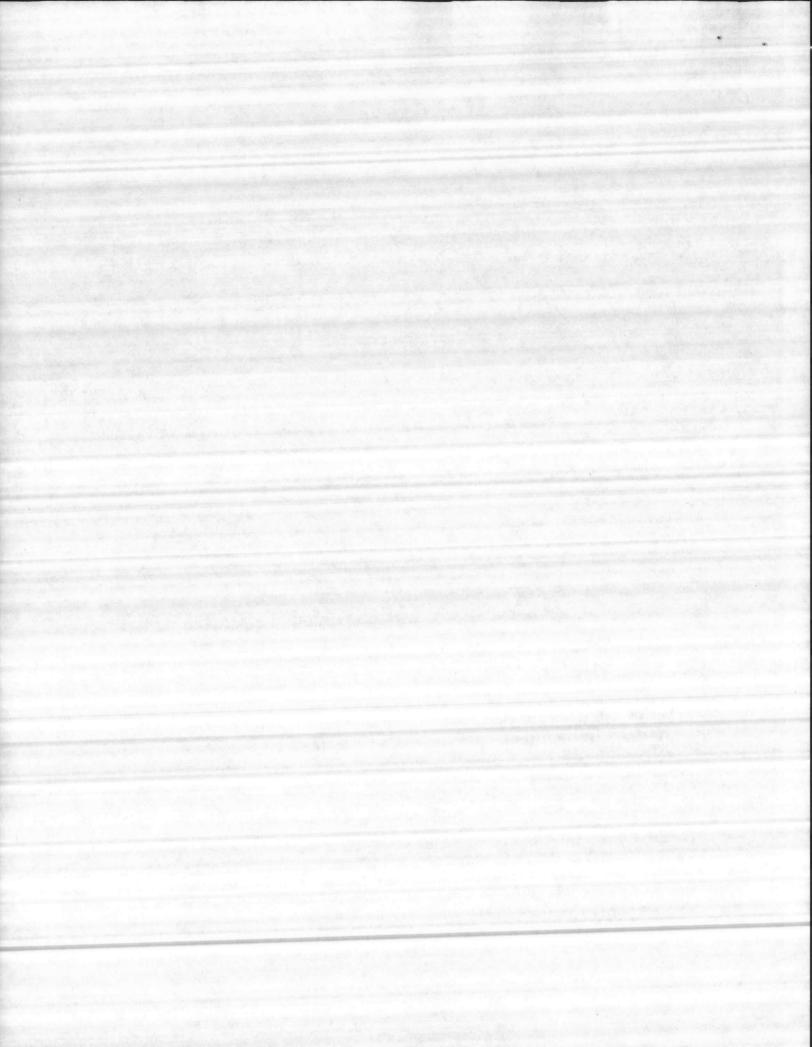
No.	Description 90
P7166516	Hi-Cap Processor, 140 second cycle
P7167016	Hi-Cap Processor, Industrial Model.

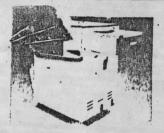
#### **Options & Accessories**

P/830516	variable Speed
P7016616	Cine Roll Film Feed and Take Up
P7016716	Developer Filter
P7831216	Foam Roller Dryer Rack
P7830616	Rack Carrier Tray
P7830716	14-Gallon Replenishment Tanks, Pair
P7830816	25-Gallon Replenishment Tanks, Pair
P7166816	50-Gallon Replenishment Tanks, Pair

REQUIFEATURES 7.19 FOR

See page 13 for mixing valves, water filter, and automatic standby controls.





Designed for high-output departments, at a surprisingly low cost

# firms t with saver controls

Xonics Hi-Cap

**Automatic** 

Processor

#### DESCRIPTION

When the demands of your x-ray department are large ... and your present processor is not up to the task, demand the Xonics Hi-Cap.

- Quality and Reliability All the Time
  The Xonics Hi-Cap is ruggedly
  built to withstand the rigors of an
  active radiology department. And,
  it's designed to give you
  consistent radiographs time after
  time with a minimum of operator
  attention. And, up to 400 films of
  mixed sizes can be processed
  each hour for more efficient
  patient flow.
- Attractive Exterior Resists
  Day-to-day Abuse

The combination of stainless steel and durable vinyl on the exterior surfaces resists corrosion, and virtually eliminates scuffing and potential clean-up problems. The Hi-Cap maintains its good looks as well as its superior performance for a long, productive time.

☐ Designed for Simplicity of Operation

Convenience was one of the first things that was designed into the Hi-Cap—and it shows. For example, the controls, including the dryer temperature and operational switches, are located on the input feed tray so they're always right where you need them. Dryer and developer temperature gauges are conveniently mounted near the exit tray so these important variables can be continuously monitored from outside the darkroom.

Moisture-free Electrical Environment

Critical electrical components of the Hi-Cap are located in an isolated compartment for easy serviceability, and to protect them from potentially corrosive chemicals. This helps to increase operational reliability by eliminating many of the causes of malfunction. ☐ Automatic Replenishment Sensor

A unique air-actuated switch senses the entrance of film into the processor, automatically signalling the replenishment system to maintain chemical balance and activity. This special switch adds to the reliability of the Hi-Cap by minimizing moving electrical components. You benefit, too, because the air switch does not need physical contact with the film to operate. There's no possibility of the films "hanging up" or being scratched.

☐ Continuous Transport System

The transport system features heavy-duty geared transport rollers to provide dependable film transport. Simplified rack design eliminates the need for periodic adjustments. And, the rollers are constructed of a tough, durable phenolic material and special rubber compounds to minimize film artifacts.

Processes any Standard Film

Virtually all medical x-ray films are easily and efficiently processed by the Xonics Hi-Cap automatic processor. It will accept sheet films from 4" x 5" to 14" x 36", and roll films up to 14" wide. And, depending on your film usage requirements and types, you can order your Hi-Cap with the standard 120 second, or optional 3.5 minute or 7 minute processing cycles. There's a variable speed option available, too.

#### IMPORTANT HI-CAP PROCESSOR FEATURES INCLUDE:

- Automated control of processing variables, including developer and dryer temperatures.
- ☐ Simplified film path with no crossover rollers eliminates many of the causes of film jams and loss.
- Automatic replenishment system keeps processing chemistry at peak balance for radiographic consistency.

- □ Low-consumption water wash uses only 1½ gallons of tepid water per minute.
- Heavy-duty gear drive transport for trouble-free constant-speed processing of up to 400 mixed film sizes per hour.
- High output recirculation system maintains solution uniformity, and provides optimum mixing throughout the processing cycle.
- Space-saving design for installation in virtually any location, coupled with easy utility hook-up.
- Standard 25 gallon replenisher tanks included. Capacity-increasing 50 gallon tanks available.

#### Installation Accessories

- Choice of high-capacity pressure compensating or medium-capacity thermostatically controlled mixing valves to precisely control the water temperature.
- Filter system with replaceable filter element to assure clean water for the processor and mixing valve.

#### SPECIFICATIONS

#### Tank Capacities:

Developer: 10 gal. Fixer: 6.5 gal. Wash: 6 gal.

Processing Cycle: 140 second standard. 3.5 minute; 7.6 minute. variable speed options.

Capacity: 400 sheets (mixed film sizes) or 220 sheets (14" x 17") per hour at 140 second cycle.

Sizes and Type of Film: Medical x-ray film from 4" x 5" through 14" x 36". Roll film up to 14" wide.

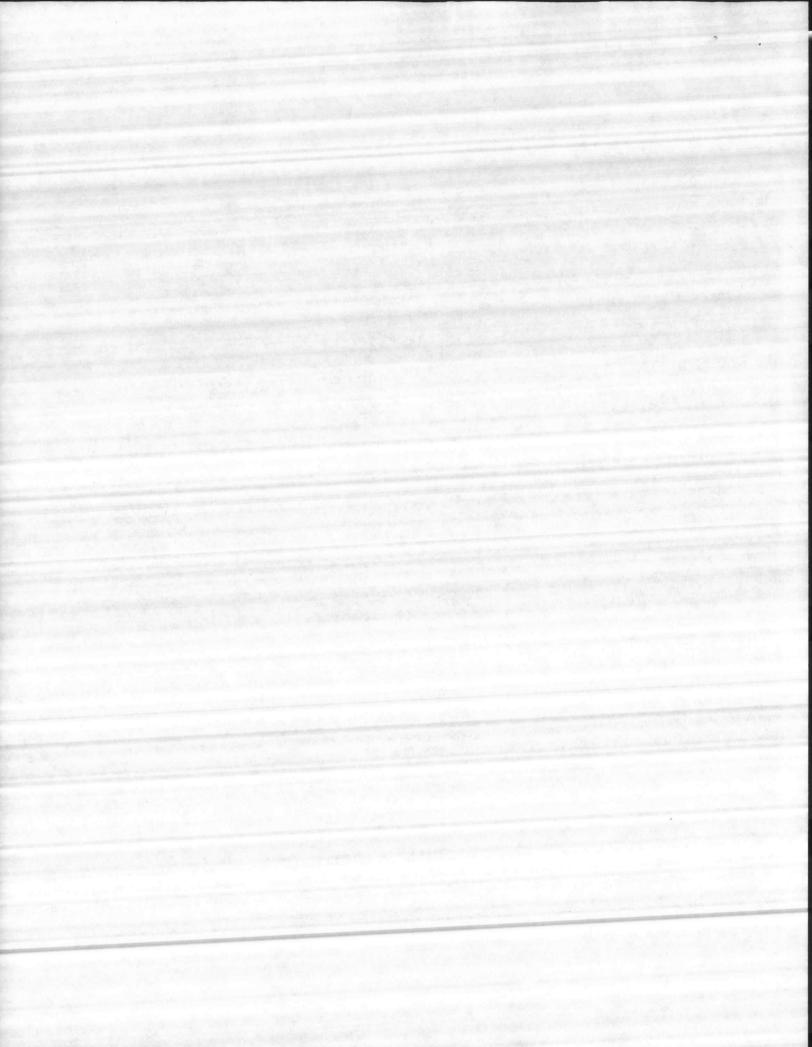
#### Temperature Controls:

Developer: Thermostatically controlled heating element with tempering coil.

Drier: Thermostatically controlled heating element.

replenisher status indicator







### OFFICE CORRESPONDENCE WINSTON-SALEM, N. C.

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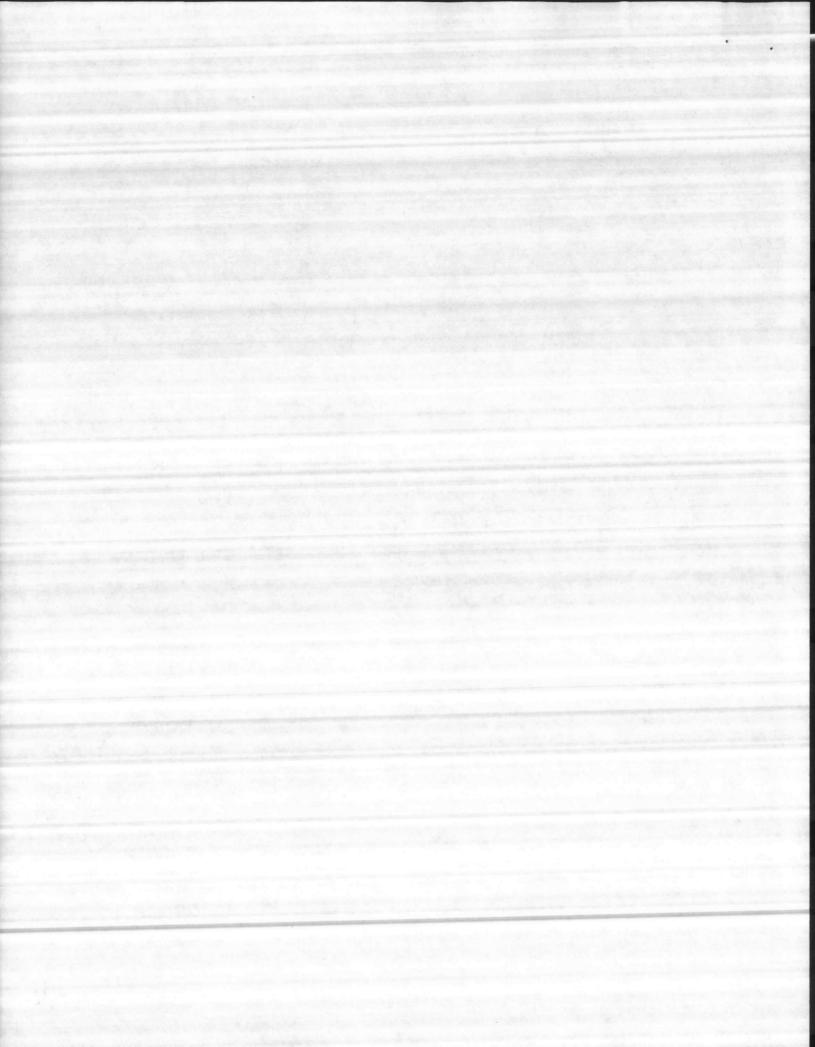


N-62470-77-6-7526

"It is hereby certified that the (material) (equipment) shown and marked in this submittal is that approved/proposed to be incorrected into Contract Number \_\_\_\_\_\_\_, is in compliance with the contract drawings and specifications, and can be installed in the allegated spaces, and is (approved for use) (submitted for Gover: ent approval).

CARDITAL COMMRACZING CO.

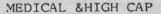
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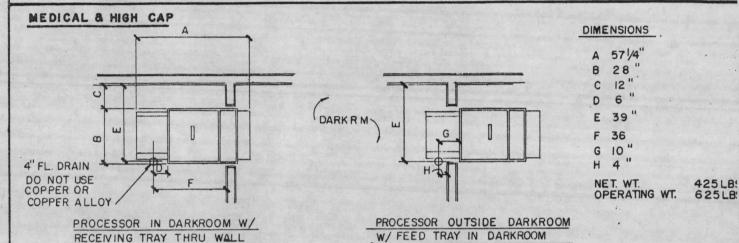




### ARCHITECTURAL PLANNING DATA







ELECTRICAL REQUIREMENTS

220 VAC, 3 OR 4 WIRE SINGLE PHASE, 60 HZ AC, 40 AMP MAX THROUGH FUSED DISCONNECT SWITCH

PLUMBING REQUIREMENTS

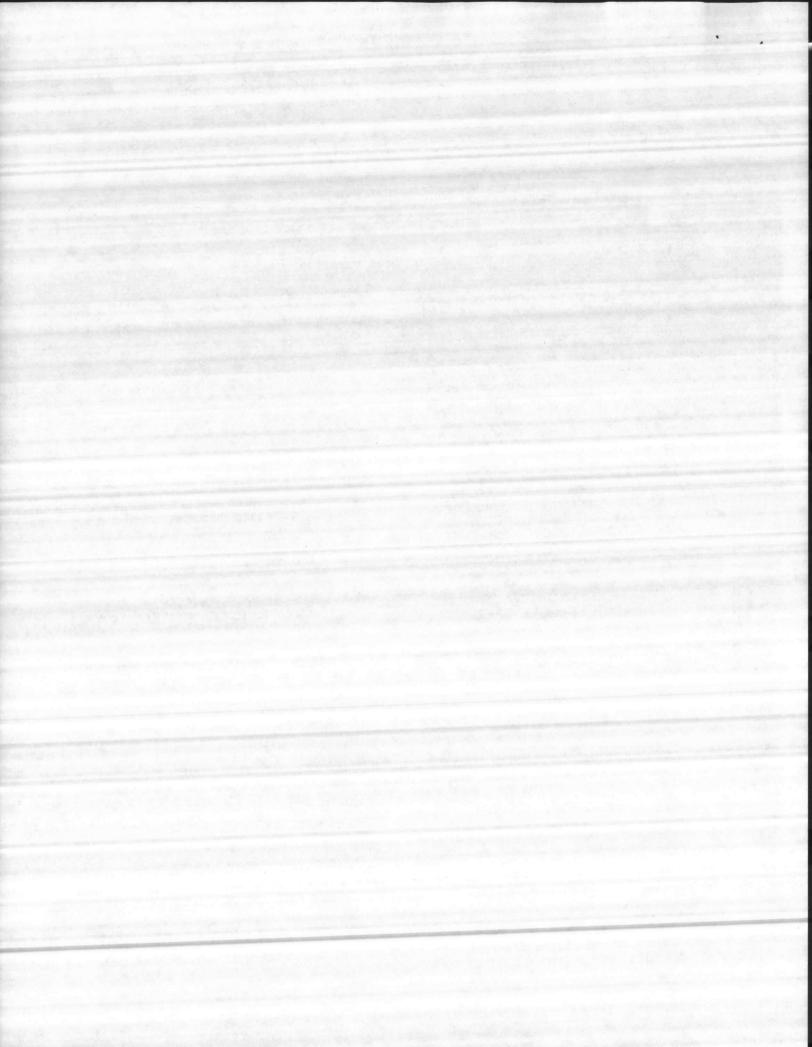
WATER: 1/2 GALS PER. MINUTE (TEPID)

FILTER: TO PROTECT THE PROCESSOR, A WATER FILTER IS RECOMMENDED FOR INCOMING WATER

VENTING REQUIREMENTS

100 CFM MAX. AT 150° F. MAX. 10'-0" LENGTH FLEXIBLE TUBING SUPPLIED WITH PROCESSOR FOR AIR EXHAUST. VENT INTO WALL.

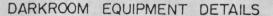


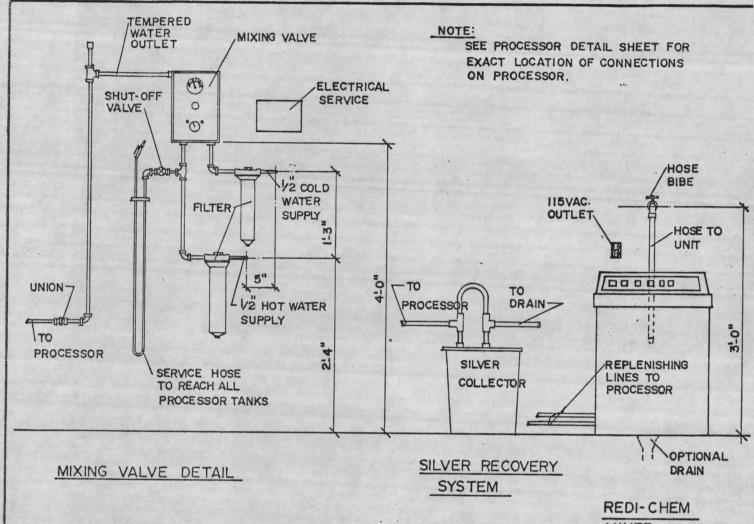


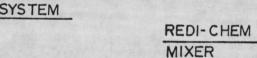


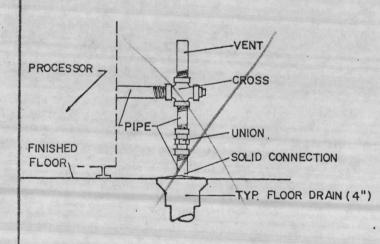
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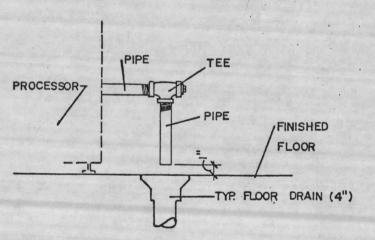








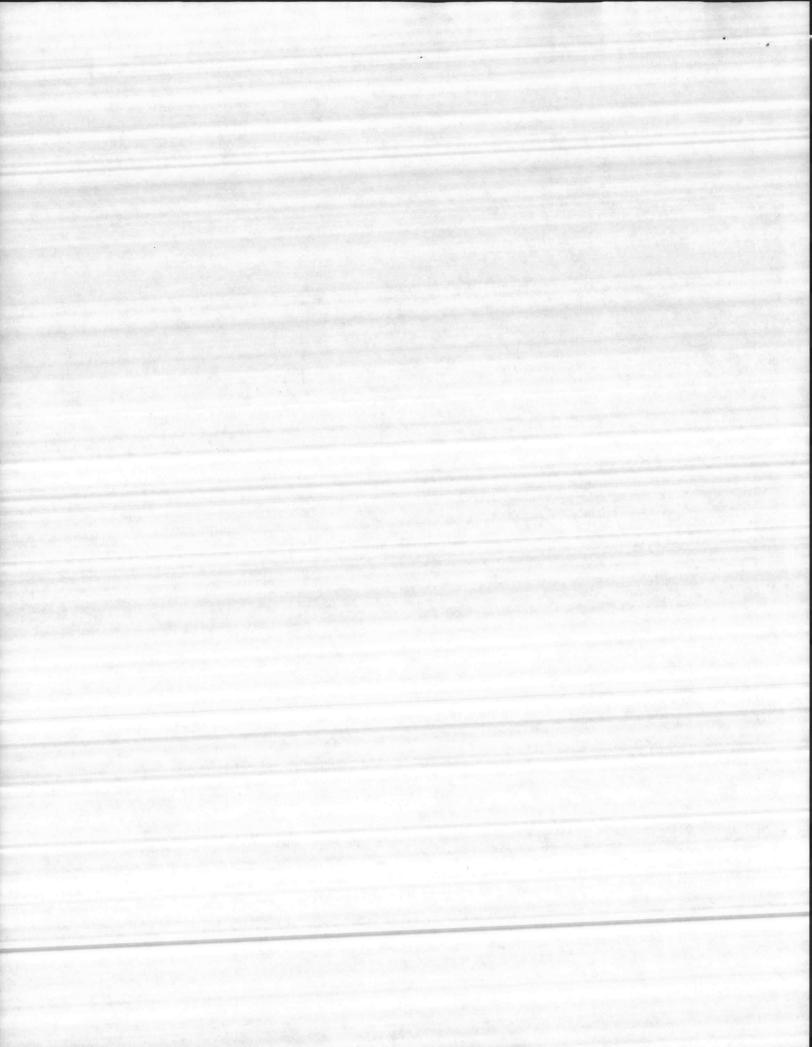
SOLID CONNECTION TO FLOOR DRAIN



I" AIR GAP CONNECTION TO FLOOR DRAIN

NOTE

DO NOT USE COPPER OR COPPER ALLOY



### DRAWING AND SPECIFICATION TRANSMITTAL

LOCKWOOD GREENE ENGINEERS. INC.

SPARTANBURG. SOUTH CAROLINA 29304 P.O. BOX 491

October 30, 1980

Sect 11757

TO\_ Naval Facilities Engrg. Command - Bldg. N26 Atlantic Division Norfolk, Va. 23511

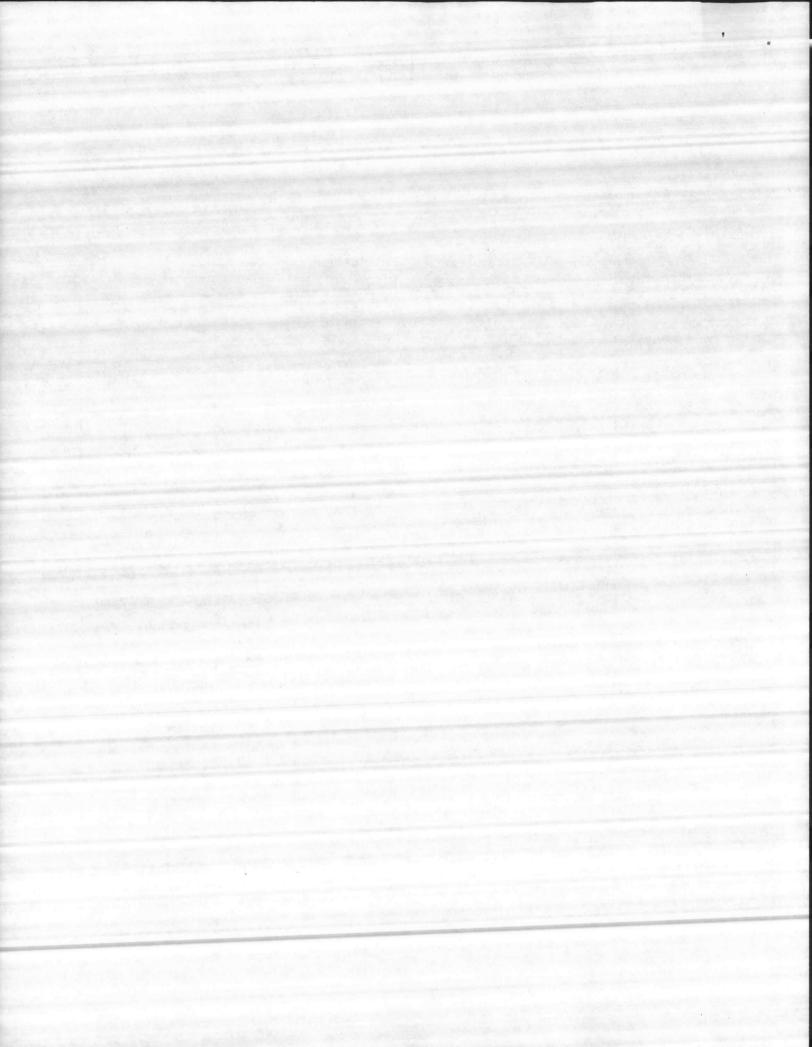
DATE JOB NO. 77239.16 JOB NAME N.R.M.C.

SHEET 1 OF 1 ORDER NO.

ATTN: Mr. John Grubbs - Code 05

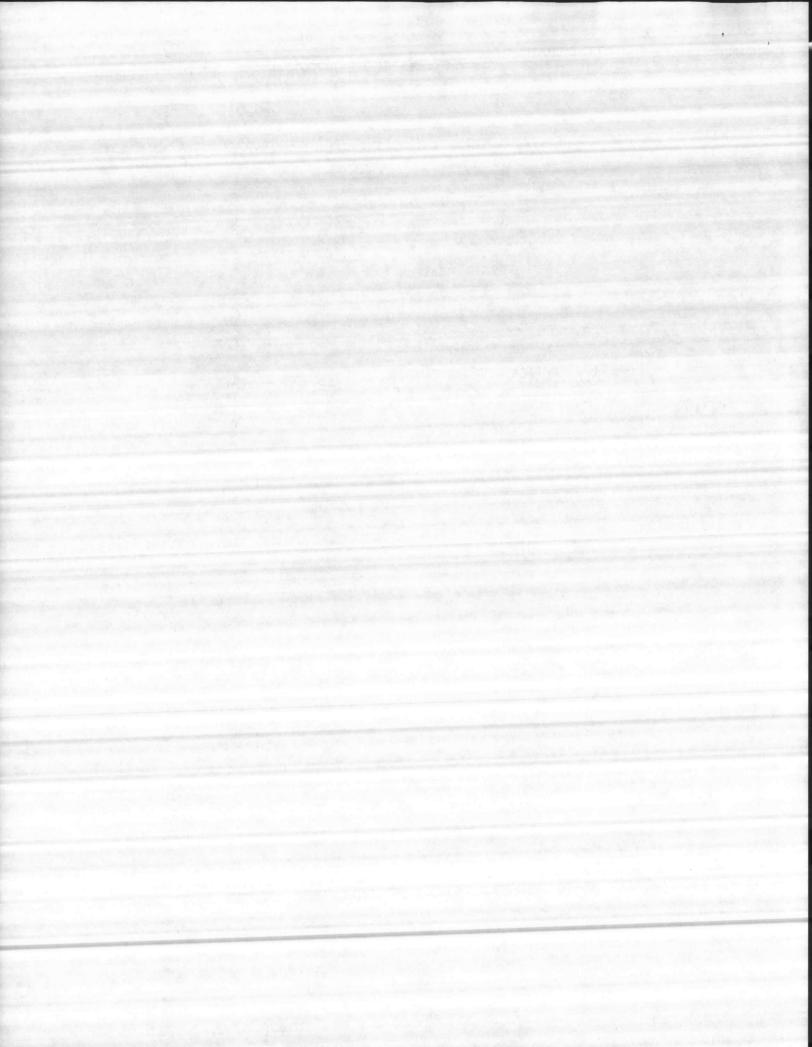
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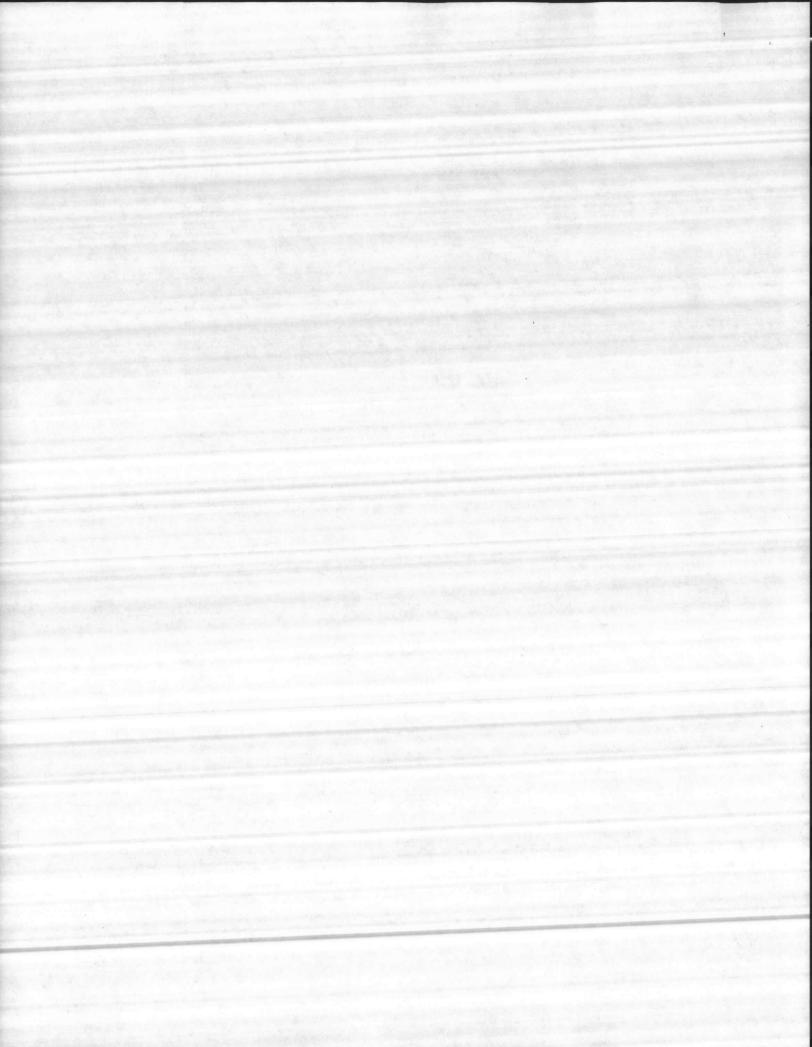


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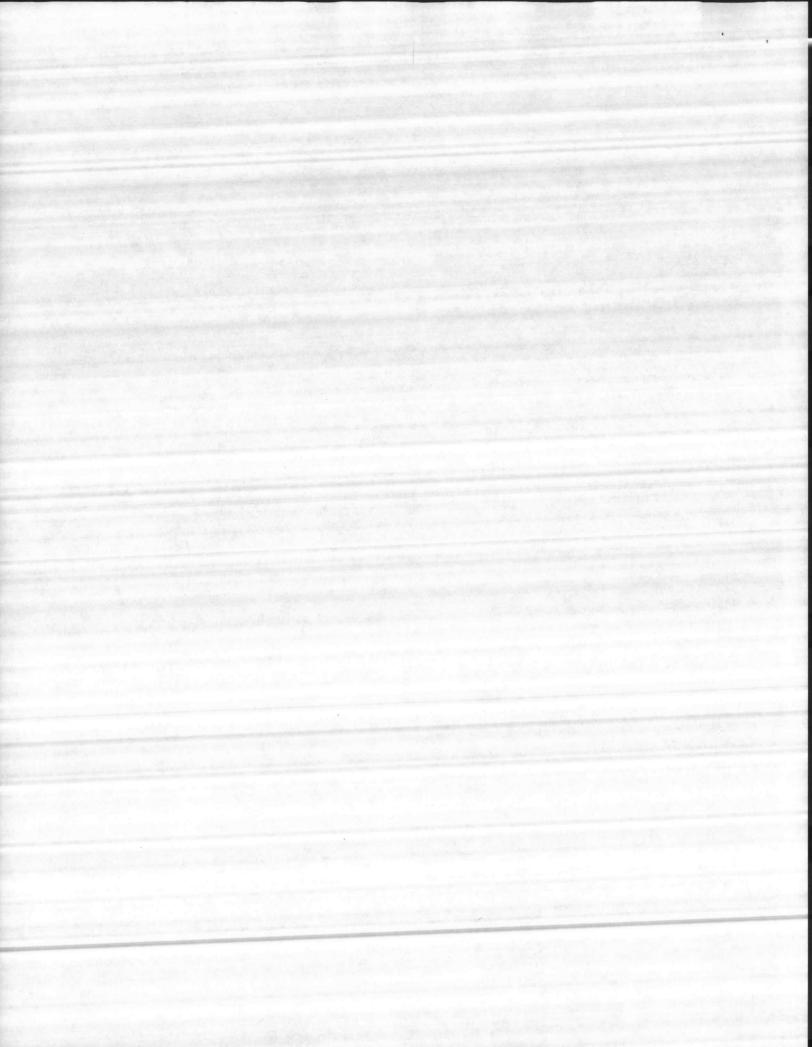


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*List only one specification division per form.  A-A  List only one of the following categories on each transmittal form, and indicate which is being submitted  Contractor Approved  OICC Approval  Deviation/Substitution	10-1-80
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CONTRACTOR USE ONLY  *List only one of the following categories on each transmittal form, and indicate which is being submitted  Contractor Approved  Contractor Representative (Sygnature)  X-1600  X-3830  The Approved Contractor Representative (Sygnature)  X-3830  Contractor Representative (Sygnature)  Contractor Representative	10,012,
*List only one specification division per form.  *List only one of the following categories on each transmittal form, and indicate which is being submitted  *Contractor Approved    Contractor Approved   OICC Approval   Deviation/Substitution For OICC Approval   Reparation of the following categories on each transmittal form, and indicate which is being submitted    PROJ. SPEC. SECT.   ITEM IDENTIFICATION   For OICC Approval   Reparation of the following categories on each transmittal form.   PROJ. SPEC. SECT.   ITEM IDENTIFICATION   Reparation of the following categories on each transmittal form.   PROJ. SPEC. SECT.   ITEM IDENTIFICATION   Reparation of the following categories on each transmittal form.   PROJ. SPEC. SECT.   ITEM IDENTIFICATION   Reparation of the following categories on each transmittal form.   PROJ. SPEC. SECT.   ITEM IDENTIFICATION   ITEM IDENTIFIC	NIC.
List only one of the following categories on each transmittal form, and indicate which is being submitted    Contractor Approved	*ACTION CODES
Contractor Approved  ACTIO CODE  ACTIO COD	pproved sapproved
CONTRACTOR'S COMMENTS  CONTRACTOR REPRESENTATIVE (Signature)  CONTRACTOR REPRESENTATIVE (S	Approved as noted Receipt acknowledged.
PARTICIPATION OF ALL PROPERTY	omments esubmit
THIS WAY 3, 3 PICKES COSP. Letter 9-12-80 7 AND THIS WEWER SCOMMENTS  PART AND SUBMITTAL AND SUBMITTALS TO ROICE CONTRACTOR REPRESENTATIVE//Signature)  WANTERACTOR'S COMMENTS  CONTRACTOR REPRESENTATIVE//Signature)  WAY - 3830 7 AND TO	
AND	SHA 10/20,
X - 1600 X - 3800 7 R X - 3830 7 AN  OPY OF TRANSMITTAL AND SUBMITTALS TO ROICC 10 - 1 - 80  ATE RECEIVED BY REVIEWER FROM (Reviewer)  Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contrast tractor calls attention to and supports the deviation.  Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comment transmittal form.  EVIEWER'S COMMENTS  SUBMITT LIST INDICATING LOCATION OF ALL ANDICATING LOCATION OF ALL ANDICATION O	
X-3830  X-3830	
SUBMITTALS AND SUBMITTALS TO ROICC  ATE RECEIVED BY REVIEWER  FROM (Reviewer)  Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contrast tractor calls attention to and supports the deviation.  Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in commentarismittal form.	
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DPY OF TRANSMITTAL AND SUBMITTALS TO ROICC    CONTRACTOR REPRESENTATIVE (Signature)	1811191
ATE RECEIVED BY REVIEWER  FROM (Reviewer)  Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contractor calls attention to and supports the deviation.  Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in commentarism in transmittal form.  EVIEWER'S COMMENTS  GENERAL NOTE: SUBMIT LIST INDICATING LOCATION OF ALL ANDICATING LOCATION OF ALL ANDICATION OF ALL	A UIO
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I transmittal form.  EVIEWER'S COMMENTS  GENERAL NOTE: SUBMIT LIST INDICATING LOCATION OF ALL I	
GENERAL NOTE: SUBMIT LIST INDICATING LOCATION OF ALL	its below off one correction
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2378	
COPIES TO:     ROICC (2)     LANTDIV (1)     A-E (1)     A-E (1)     A-E (1)	

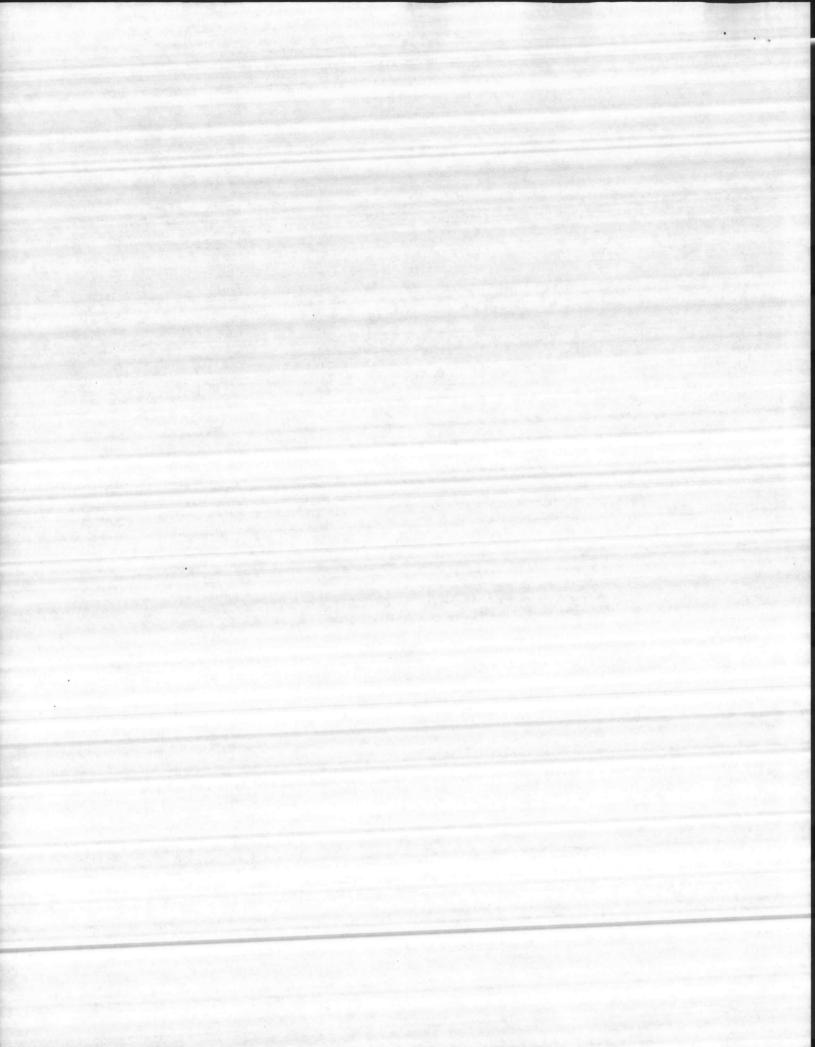
The The Commence of



Symbol 14 gal 30 gal 55 gal TANK DIAMETER "A" 1634" 22" 24" TANK HEIGHT "B" 221/2" 273/4" 3534" 8-gallon Internal Tank Hot-Water Supply Cold-Water Supply 11.3/2 Mixer Faucet with Thermometer-& Hose Bib be (material) (equipment) shown and "A" Cover be installed (submitted in compliance 12.375 Bodal Kodak approved/proposed B Not to exceed solution level in processor tank can Finished Floo 1.53 and Processor Light-Lock Strip %" to 1/2" x 3/4" Molding 1/2" to 3/4" Plywood This Section Machine Scr or Particle Board Optional Furnished #10 Rd. Hd. Wood Screw 4 Clamps Furn 10 "It is hereby certified that 4 Req'd. (Not furnished) submitt-1 30" Operating Clearance Recommended; 18" Minimum for Easy Service. If Against-the-Wall Installation is Necessary, Spaces Relocate the Developer Filter Government approval Reviewer into Drain 30" Clearance Recommended with Do not use brass Internal Replenisher Tanks, otherwise or copper lines allocated 18" minimum. Signature Coc the contract incorporated \*18" Clearance Authorized Recommended Replenisher marked Tanks Extended the LOCKWO-1-1 FILE REF. TO Corrosion-resistant 20" x 30" . . 24 MIV .-Drain-Do not use brass or copper lines Plan View of Standard Installation 177 Alternate Installation May Be Opposite Hand The-Wall Installation Permissible if All Service **EQUIPMENT SALE** Can Be Readily Disconnected or an Access Panel Is Provided. Radiography M EASTMAN KODAK . R 668081

KODAK and X-OM.

203-7-78-G



### PICKER CORPORATION

NORTH AMERICAN SALES & SERVICE

1722 TOAL STREET P. O. BOX 26368 CHARLOTTE, NORTH CAROLINA 28213

September 12, 1980

Cardinal Construction Company Post Office Box 8408 Camp LeJeune, North Carolina 28542

ASTANTIC DIVING

Attention: Mr. Bill Haymaker

Dear Mr. Haymaker:

Enclosed you will find the following per your request:

- Nine(9) copies of specifications and installation requirements for items we are to supply (Section 11757, Items 3.1 and 3.2)
- 2. Per item 3.3 this is to certify that the items we will supply meet the specifications
- The maximum ballast leakage for each section of each illuminator does not exceed 25 micro amps. See literature on illuminators (Section 11757, Items 3.3.1).
- 4. The illuminators quoted meet federal specifications GG-I-00446D(Section 11757, Item 1.1).

If you have any questions or need additional information, please contact me.

Sincerely,

PICKER CORPORATION

11-1 Within

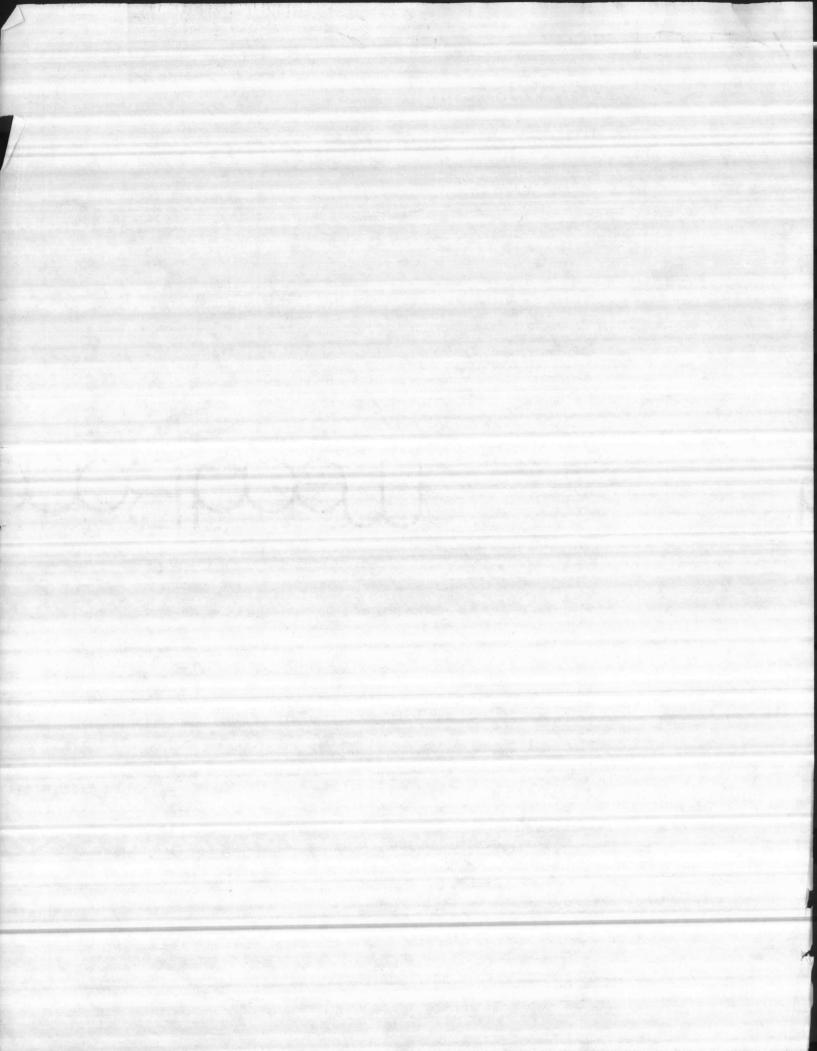
Michael R. Vehorn District Manager

MRV/1j

2378



	SUBMITTAL TRANSMITTAL "		6	11-2	thru
5ND LANTDIV 4-4355/3 (Rev. 6/76)	SECTION 11757	N-82470-77-6-7520	0 61	17-2	DATE 12-17-80
FROM CONTRACTOR	Inal Contr. Co.	PROJECT TITLE AND LOCATION WAVAL REG	310N1	AL MI	ED, CTR.
Lockwo	and Greene, Fug	rs Comp L	eje	une,	N.C.
	CONTRACTOR USE ONLY			-	IEWER USE ONLY
	*List only one specification division p	per form.		·-A	ACTION CODES
L	List only one of the following categories on eac and indicate which is being subm			AN-Api	approved oproved as noted
Contractor Approved	OICC Approval	Deviation/Subs		C-Com R-Resu	
PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFIC (Type, size, model no., M brochure nur	ICATION Mg. name, dwg. or	NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE
11-2 7.12	M-5581, Sink		Mp.7	AN	9/5 1/3/81
thry 7.13	M-5582, Washe	ex, Print, Auto	7	R	D311 6
17-2 7.14	M-5579, Proces	1. 1.	87	AN	
7.21	M-5580, Processo	, , , , ,	7	AN	
7.22	M-5583, Water	Chiller, Sink	7	AN	1
	specified Hen tra Cost Involv		0,,	E7101	95 01
COPY OF TRANSMITTAL AND SU		CONTRACTOR REPRESENTATIVE	(Signature)		11
DATE RECEIVED BY REVIEWER	/2-//-80   FROM (Reviewer)	1 C/M J. T	ray	make	21
- Cubmittale are returns	ed with action indicated. Approval of an item doe	in a provided any deviat	from th		
tractor calls attention	n to and supports the deviation.  rded to LANTDIV with A-E recommendations ind				
transmittal form.	Sed to EARTED VINITA - LTGGG INTO CO.	icated in neviewen ode oner es	CHOIT AIRC I.	Comments	elow on UNE COPT Of the
TO SUBMITTE	S (ITEM 615 \$ 616) HA EL OF ACCEPTABLE CE IS A DEVIATION FROM TO STIDD SHEET FOR CO	THE CONTRACT OF	TOUR	CO- AM Weens Engin CEVICIVI C 23 198	TS AND SHOULD
			Chi de gual es des Australia	A STATE OF THE PARTY OF THE PAR	of the state of th



s jereby certified that the (material (equipment) shown and before the contract Number contract drawing 312/439 9330 1800/323,6602 can be installed in course the same terms of the contract drawing 312/439 9330 1800/323,6602 can be installed in course the same terms of the contract drawing 312/439 9330 1800/323,6602 can be installed in course the same terms of the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in course the contract drawing 312/439 9330 1800/323,6602 can be installed in contract drawing 312/439 9330 1800/323,6602 can be installed in contract drawing 312/439 9330 1800/323,6602 can be installed in contract drawing 312/439 9330 1800/323,6602 can be installed in contract drawing 312/439 9330 1800/323,6602 can be installed in contract drawing 312/439 9330 1800/323,6602 can be installed in contract drawing 312/439 9330 1800/323 9300 1800/323 9300 1800/323 9300 1800/323 9300 1800/323 9

Authorized Reviewer All Control Contro

N-62470-77-C-7526

ITE NO	UUAN1:11	DESCR. TION	UN 1 MRICE	EXTENSION
, 12		Item M-5581; Sink, Print, Photo-		
.12		graphic:		
		graphic:		
.12.1		Sink Photographic, for processing		
.1		prints; 20" x 24" tray capacity,		1
1		model B-3072, 30 deep, 72" wide		
		and 7 3/8" high sink section; unit		
		36" high with 7" high backsplash.		
			20176	i
		Calumet Medel P 3672 aink #000316		
		w/B style 72" backsplash #CP0413	CP0143	1
.1		Include the following:		
		(a). Type 316 stainless steel, incl-		
		uding stand		
		(b) 3" thick backsplash for plumbing		!
ECESSED 1	DEAIN	(c) ½" thick bottom insulation		
	Has Lone & s fore	(d) flat and level sink bottom		
250°0.		(e) standard/3" IPS Stainless Steel		
		drain _ receësed not evailable !		0
		(f) Stainless steel stand with gus-		1
		sets for shelving and four point	FILE NO.	
		leveling feet.	DE C	reene Engineers, I
		(g). Thermostatic valve WR-3; ½" hot		A E D
		and cold water lines, 2" outlet	DE	23 1980
i		Model WR 3, #CP0504	REF. TO	i -
		PX-3	ACK.	
		SUBMIT DATA - 4100		

1% 10 net 30

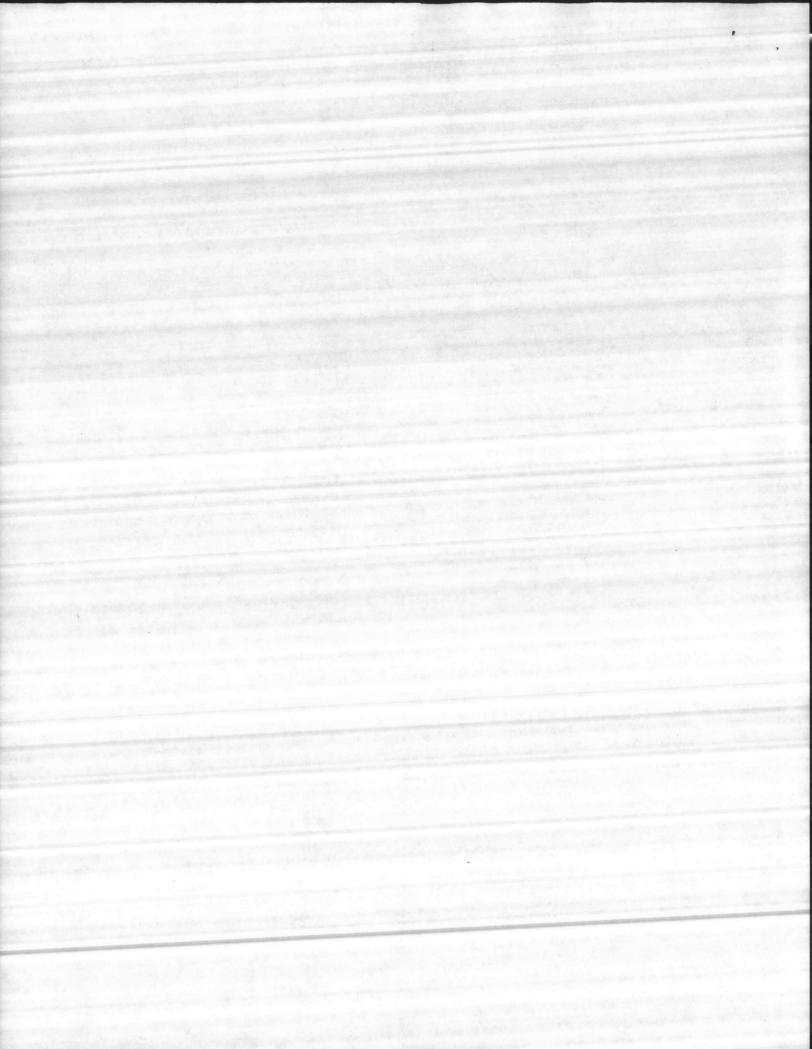
DELIVERY 4-6 weeks ARO

19.

This quote is valid for 30 days and does not occude installation, delivery charges or applicable taxes. Delivery FOB. Elk Grove Village, unless otherwise noted. No inside deliveries.

Eileen M. Healy

NY SALES SHOWROOM (FLASH CLINIC) 100 FIFTH AVE. • ROOM 1511 NEW YORK, N.Y., 10041 • (212) 673-4030 LOS ANGELES SALES SHOWROOM 10848 MISSOURI WEST LOS ANGELES, CA. 90025 • (213) 474-9559





NO. 2

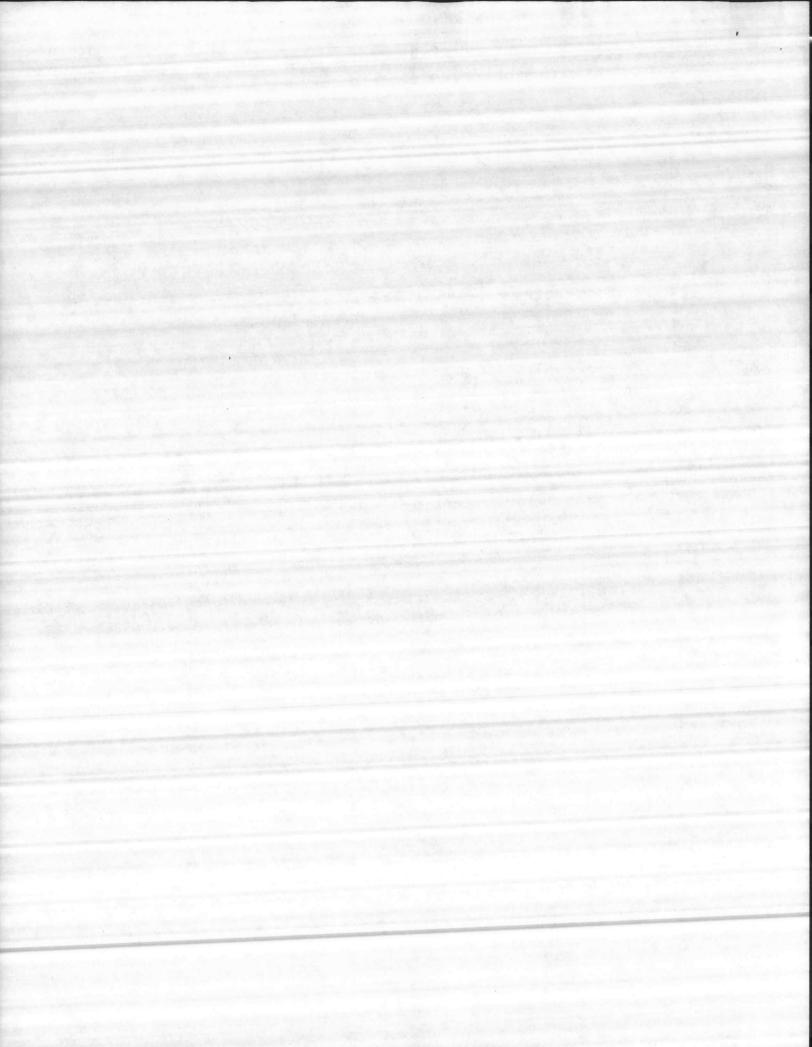
## OUDIMITION

CONTINUATION SHEET

DATE 8-13-80

YOUR REFERENCE

	ITEM NO.		The state of the s	4 · · · · · · · · · · · · · · · · · · ·
	TEM NO.	OUANIITY	DESCRIPTION	EXTENSION
:	7.12.3		Calumet does not install equipment.	
			Total cost of 7.12 item #M5581 is	
			Teem #MJJ81 15	-
	7.13		Item M-5582, Washer, print, automatic:	The local state of the local
	7.13.1			9.33
	7.13.1	1	Automatic print washer; capacity of	
		150	125 prints; 8x10 inch, at one time;	A The State of the
			baked enamel steel stand. Calumet Model 516, #CP5016	
		_		
1	7.13.2		Includes the following:	
-			(a) Type 316 Stainless Steel 24x30	
!			interior	ENE TANK
1			(b) N/A PEO'O	
			(c) N/A stainless steel tank included	
1			(d). A wave action and hydraulic jet from the bottom shuffles the	
1			prints continuously, lifts prints	1
1			off the bottom and flows water	4. 6 2 1
i			between the prints. Small air	
1			bubbles introduced into the wash	
1			water act as a lubricant to pre-	
1			vent print sticking. Prints are	
			always in motion and separated.	
			The combined air, wave, and hydraulic jet action washed prints	
			in 25 to 45 minutes. The Calumet	
1			Automatic Print Washer: uses less	
			water, approximately 2 gallons per	
1			minute as compared to equal cap-	
1			acity drum washers using 5 or	
1			more gallons per minute.	
-			(e) Automatic cycling-a timer with 0-60 minute adjustments turns on	
			the water, starts rocking motion	
			and hydraulic action. Plumbed back-	
			splash with thermostatic mixing	
		25 2 25 2 2 2	valve.	
			1100	Kanasa Sanasa
			4198	1 2 7 7 1
1				THE RESERVE OF THE PARTY OF THE





NO 3

### CONTINUATION SHEET

DATE 8-13-80 ...

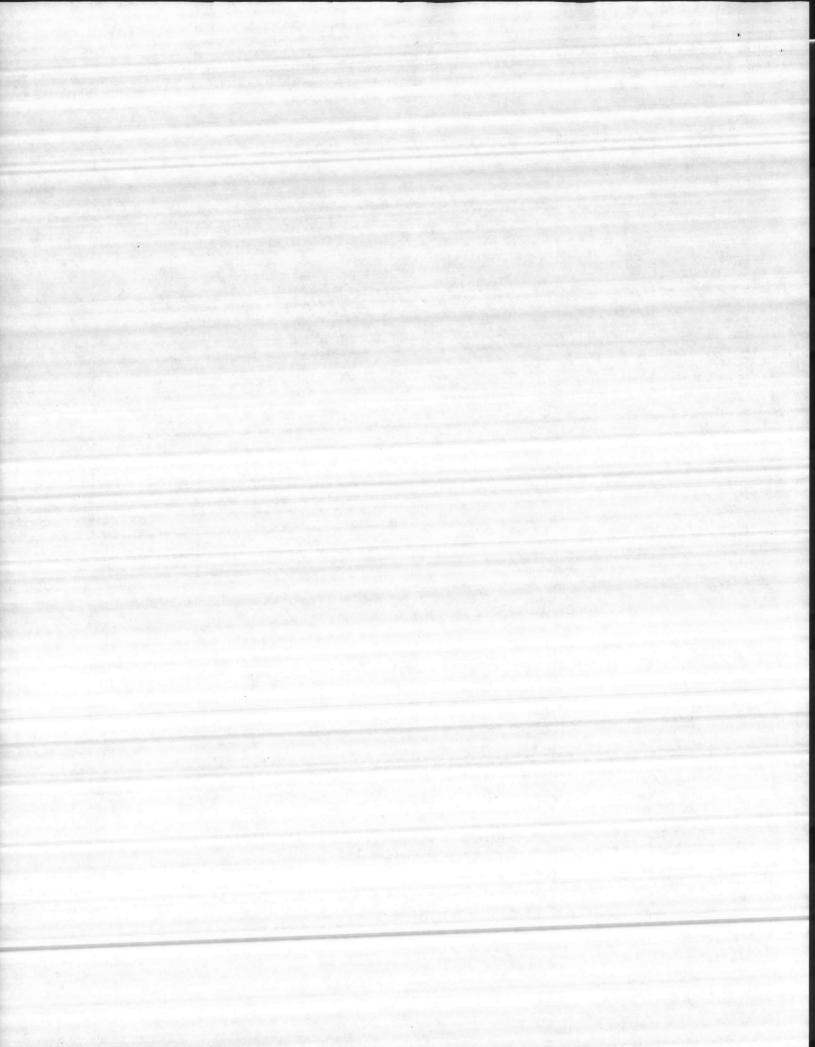
IILM NO.	OUANIITY	DESCRIPTION	UNIT PRICE	EXTENSION
		(f) Electrical characteristics, 120		
4 4 4	113 11 7000	volt, 60 cycle 1 phase	1000	
		(g) 12" cold water, 12" hot water line	<b>第一种</b>	The state of the s
		(h) drain, 12" IPS		
7.13.3.		Calumet does not install equipment.		
		Total cost of 7.13 item M-5582 is		
7.14		Item M-5579, Processor, Film, Color:	Taware an	
7.14.1	-	Processor for color film for medical	100 mm	- American
7.13.1		photography: 3½ gallon capacity for		
		sheet and roll film. Model CP823 IJ		
		with stainless steel stand and base;		
		26" deep, 44½" wide, and 54" high.		
		Provide air compressor. Model CP8231	J,	
		cat. #CP1017		
7.14.2		Includes the following:		
		(a) Type 316 stainless steel con- struction.		
		(b) Heliarc welded water jacket and		
		tanks.		
		(c). Automatic 7 GPM thermostatic val	lve.	
		(d) Process tanks include light tigh	it .	
		covers.		
		(e) Quick dump Wash tank.		
		(f) P.V.C. drain manifold.		
		(g) Solid state gas burst timer, adjustable.		
		(h) P.V.C. water inlet and recir- culation fittings.		
		(i) Gas burst distributors, built-in to each tank.	1	
		(j) Recirculation system and PVC fac		
		tory installed fittings model		
		7000 high temperature recirculat cat. #CP5025 @	or,	
		(k) Internal plumbing fittings for		
		nitrogen/air and water; sweat solder copper.	419	8





DATE 8-13-80 YOUR REFERENCE

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IIIM NO.	DUANTITY	DESCRIPTION UTILITY PRICE EXTENSION
-11-		(1) Insulated water jacket
17.10	2 7 2	(m) adjustable nitrogen/air controls
	1.5 4.85 SE	I to be to the water and the second of the s
	一种"	(n) combination rack for sheet and
To and the training of	The Automotive	roll film model 859, cat #CP2032
		(a): 0.
1		(o) Air compressor oil free remote
NETHIL TE	A Day	location: cat. #CP9120 @, 00
an while te	The Or	The state of the s
KEMOTE I	FORESTON	(2) 5.814 cubic inches of air
	-5184	delivered to a 10 gallon tank.
	7.3-	(3). Automatic pressure switch:
	-	on at 35 PSIG and off at 50
		PSIG.
		(4) Compressor mounted on 12-gauge
		ASME tank.
		(5) Thermal protection on single
		phase motors.
		(6). Filter, safety valve, guage,
		pressure switch, shut-off
		valve and check valve.
		(7) · Nitrogen/air timer.
		(p).Control and starters
7.14.3		Service characteristics:
		(a) ½" cold water line male (processor) ·
		(b) ½" hold water line, male (pro-
		cessor)
		(c) ½" nitrogen/air lines, compressor
		to processor.
		(d) 1½ drain (processor)
		(e) 115 volt, 50/60 cycle, 5 amp, AC
		(processor)
	208	(f) 115 volt, 1 phase, 60 cycle.
		(compressor motor)
7.14.4		Disposition: Calumet does no in- 4198
		stallation. Total for 7.14 item #
	1	M-5579 is
		4.70



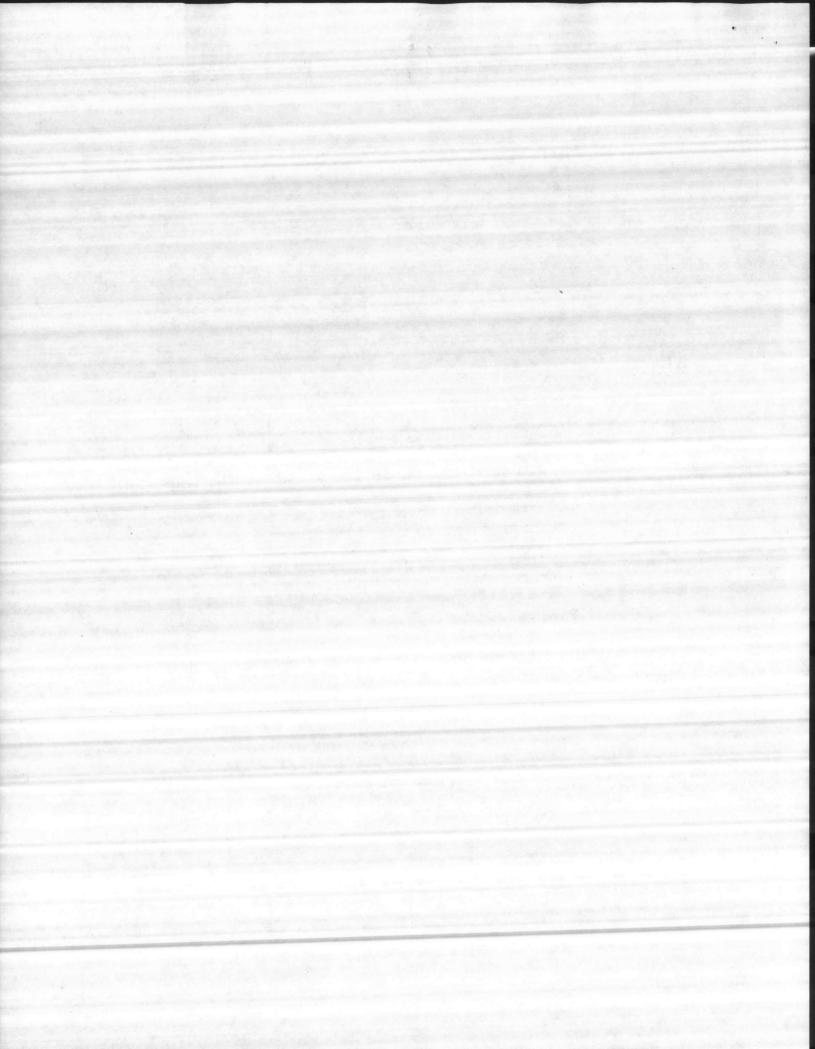


NO. 5

## MOUNTAINON

CONTINUATION SHEET
DATE 8-13-80
YOUR REFERENCE

·		YC	UR REFERENCE	-1 20 7 Charge
IILM NO.	OUANITY			
1-1-1-1-1-1-1		DISCRIPTION	WNIT PRICE	EXTLNSION
7 21			· 连角性数据统	- LANGIO
7.21	1	Item M-5580, Processor, Film, Black	13.参与代表	
1-0-4-5	1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	and in Black	Later Later	E
- 10 T - 10 T	1517793	1 - Mille	Fellow per section from	
1 2 2 2		Film Processor, for black and white,	A STATE OF THE STA	
7.21.1	The Europe of	· Film Processor	-14.9-7	
13.5		characteristics for black and white	2 101	
The British	THE PARTY OF THE P	1. 1011 111111 48 00110	the state of the state of the state of the	The second
	The state of the s	acity: Model BW-814 with stainless		1 2 2 2
	1.41.40 19.40	steel stand and a standard stainless	-	
1 - 4	- Suncing	steel stand and base; 26 inches deep	THE RESERVE OF THE PARTY OF THE	
	790	1 2 Inches wide, and 54 imphas bi-1		12000
		Model BW-814, cat. # CP1010, @s		
		# CP1010, @\$	00	The Second Second
7.21.2	Serial Series			
	-	Includes the following:		7
William Control		(a) Type 316 stainless steel con-		
		ctanal's starniess steel con-	7 1 7 2 2 2 2 2 2	1
	A STATE OF THE STA	struction.		100000000000000000000000000000000000000
		(b) Nitrogen burst system, 3 tanks,		1 2 2 2 2
		one wash.		1 1 4 4 4
		/a) T. I		I TELL
		(c) Internally braced, heliarc welde	2	
		tank leveling shelves, copper	1,	1 A
		nining sherves, copper,		
		piping with internal fittings		
		connected.		3-3-20
	THE PARTY OF THE P	(d).P.V.C. burst distributors.		
10 11 1		(e): Page land;		
		(e) Base leveling screws.		
		(1) Four process tanks one wash		
		(q) Distributors install		
		(g) Distributors installed on each		
	Franklin en	cank.		
		(h) Pressure regulator, model #NC-8,		
		cat. # CP9200 00 !		1
		100.		
	COMPANY OF STREET	10 ft. pressure hose for above		1
		including connectors. Cat. #		
	1.7	CP3023		
		C13023		
		(i) · Individual shut-off valves, each		State Section 1
		gas burst indi-off valves, each :		
		gas burst tank		
		(j) Adjustable timer; off/on con-	2 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	
		tinuous switch.	And Services	
		Orland Switch.		
		(k) Automatic temperature control;		
		water output guage; volume con-		
		trol quage; volume con-	AT	no
		valves; auxiliary tempered	41	30
		water outlet; vacuum breakers		
MARY DI	11CK	installed.		
STARY PL	A great garden exceptions promise and a	The courted.	V	
UMP VAL	VE I	1) P.V.C. Drain manifold	-15	
milities to the		m) sheet and roll film racks		
		TOTT TILM TACKS	1.	TANK TO BE
				1000
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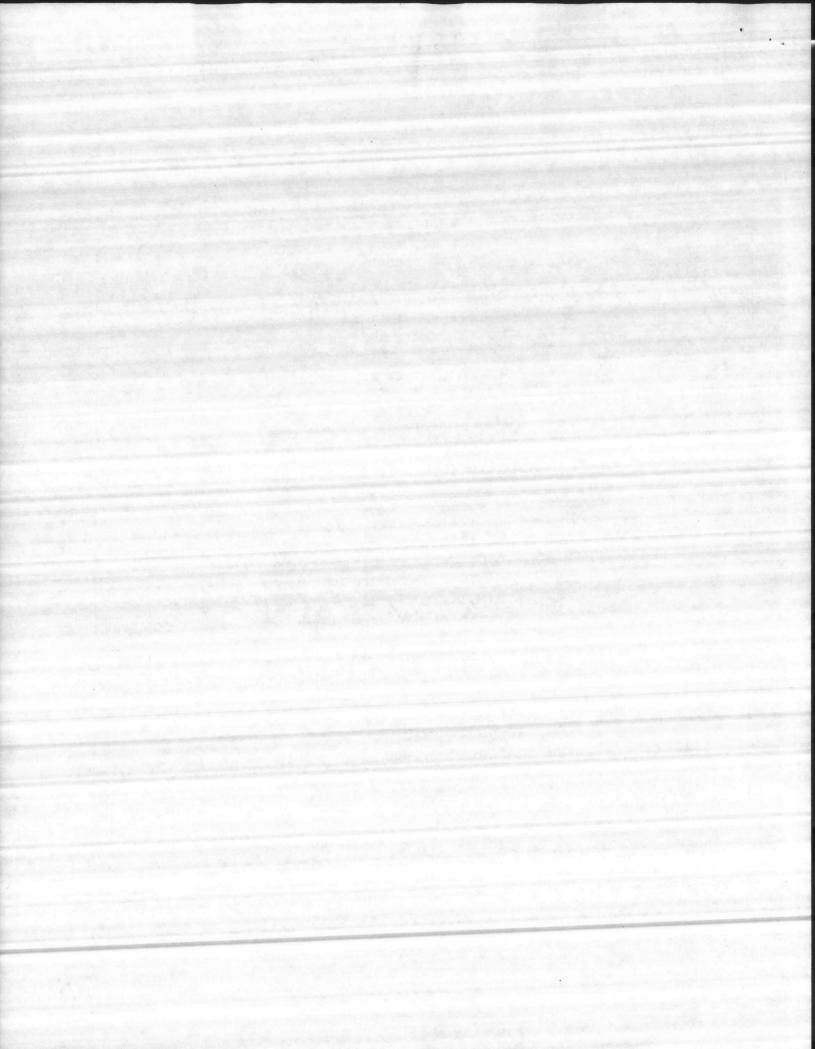
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		THE RESERVE THE PARTY OF THE PARTY TO SEE THE PARTY OF TH	from College 13	1	10日本本本本的人
IILM NO.	OUANIIIY	DESCRIPTION	UNIT PRICE	-	EXTENSION
A TELLO	A STATE OF		2一支军事	1	<b>电位数据</b>
22522	1	(1) sheet film rack model 855,	<b>经验证</b>		
		[1] "我们是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		1 1	1749
4 4 5 5	金县一	cat. #CP2030 @.		三 海	
		(2) roll film rack, model 858,			
		cat. #CP2031 @			
- 123-3	10 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15				
7.21.3	- 14 14	Service characteristics:		一 雅	
- 1	T-12	(a) ½" hot and cold water lines to		10 10	
		temperature control.	10000000000000000000000000000000000000	19.4	
		(b) 2" gas connection to remote air			
		compressor		- 5	
		(c)·l'z" drain I.P.S.		-/-	
		(d) ·110 volt 60 cycle			
7.21.4		Disposition: Calumet does no in-			37.
		stallation. Total for 7.21 item	in the same		· 一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、
		M-5580 is			
		M-3380 IS	is a second	.5	2-THEOTER
7 22		Thom M 5502 Water Chiller Drink		1 7	
7.22		Item M-5583, Water Chiller, Prink		1	
		Sink			
			****		
7.22.1		Water Chiller for temperature contro	)L	-	
		devices and processing sinks. Unit		11	
	5-5-	encased in stainless steel housing,		1.	- 5
		144" deep, and 33 3/4" wide and			
	,	16 1/8" high. Deliver 68° F water		1.1	
		automatically to sinks from 85 in-			
		coming water, factory set. Model 50W	7		
		cat. # CP9100, @		1.1	
7.22.2		Includes the following:			· Phenomen
		(a) Condenser, water cooled com-			
		pressor hermatically sealed.			
		(b) Holding tank, stainless steel,			
		9 gallon capacity.	AT	0	^
		(c) Temperature control devices	41	H	N
G.C. COORS	DINATE	(d) Mixing valves and bypass valves			
	16.45.16%		12.1		45.
		can be used.			
	(	(e) Internal thermostat, adjustable	The same of the sa	-	1346
	1	(f) Piping from unit to sinks by o	mers	1	1111
7.22.3		Service characteristics:		1	
PORDINATE	CONNECTION	(fa) 3/8" water input			
WI BLOG.	PERVICES	(b) 3/8" output drain			
1 -	17. 60. 7.	The state of the s	· · · · · · · · · · · · · · · · · · ·	7.15	1.5.31
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A HOLE		, (c) 115 volt 50/60 cycle 1 phase		<b>全国的</b>
		11 amp		100
	STATES S	11 amp: (d) /2" input drain, condenser	6-22-3-1-1	
22:4	<b>为在一个一个</b>	(a) /2 input arcin, conderise	E-16-16-16-16-16-16-16-16-16-16-16-16-16-	计经验的
.22.4		Disposition: Calumet does no in-		
		stallation. Total for 7.22 Item #		-
		M-5538 is 00		
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1590 TOUHY AVENUE ELK GROVE VILLAGE, ILLINOIS 60007 (312) 439-9330



#### CARE OF STAINLESS STEEL EQUIPMENT

Calumet stainless steel equipment is made of the finest grade material for photographic use. It does, however, require maintenance to keep it in first-class condition.

### WHY STAINLESS IS STAINLESS

There are two reasons why stainless steel is corrosion resistant. The first is because of the chemical resistance of the various metals alloyed with the steel, and the second is a chemically inert surface film. This film is continually repairing itself as chemical action breaks it down. Where the stainless surface appears free from corrosion or rust, the film is in good condition. Should corrosion appear, the film has broken down and the surface must be cleaned. Upon removal of surface corrosion, the surface film will again be self-repairing.

#### CARE OF STAINLESS

Clean equipment is equipment that will not break down in use. A weekly schedule of cleaning with household cleaner and daily wiping with a damp cloth is best to maintain the equipment and guard against surface deposits and corrosion. Chemicals that splash up on the dry surface of stainless steel should be wiped off with a damp cloth or sponge, because as the chemicals dry, they leave a chemical residue which once dried is hard to remove and invites corrosion. Chemical tanks should be cleaned each time chemicals are changed. With a cleaning schedule as outlined, Calumet equipment will give a lifetime of use.

#### REMOVING STAINS

The best way to remove chemical deposits is scouring them with an abrasive cleaner, such as Bon Ami or Bab-O. Care should be taken to rub with the grain of polished steel. Steel wool or steel brushes should never be used as particles of these materials will adhere and cause immediate rusting and breaking down of the stainless steel.

#### ACID CLEANING

Chemically removing surface deposits is another recommended method of cleaning. Frequently soap and water will remove chemical deposits. Where more stubborn conditions exist, such as corrosion or rust, we recommend applying a 20% solution of nitric acid. The area should then be rinsed with a 10% solution of baking soda or sodium carbonate, to neutralize the acid. A thorough flushing with water will then be necessary.

#### ENEMIES OF STAINLESS

Free iron is stainless steel's worst enemy. Nails, iron filings, or iron pipe fittings should never be in contact with stainless steel. In areas where the water contains high quantities of iron oxide, water filtration and/or constant inspection should be maintained. There are available on the market filtering devices for removal of iron and other salts, which may be installed in the water line and will assure chemically pure water for photographic use.

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED AS NOTED DISAPPROVED SUBJECT TO THE REQUIREMENTS OF N62470-77-C-7526

APPROVAL OF A SUBMIT AL DOES NOT INCLUDE APPROVAL OF ANY DEFECTION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION... THE CONTRACTOR SHALL BE RE-EPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED

REVIEWER LAND

DATE

FOR OFFICER IN CHARGE OF CONSTRUCTION

### DRAWING AND SPECIFICATION TRANSMITTAL Later Pert 11757 LOCKWOOD GREENE ENGINEERS. INC.

SPARTANBURG. SOUTH CAROLINA 29304 P.O. BOX 491 (803)582-2351 611-2 the 617-2

70 Naval Facilities Engineering Command Bldg N 26 JOB NO. 77239.16 Atlantic Division Norkfolk Va 23522

DATEJanuary 14,1981 JOB NAMEN R M C

TRANSMITTAL NO. 4198 SHEET OF ORDER NO. N-62470-77-C-7526

ATTN: Mr. Jonh Grubbs Code 05

WE ARE SENDING YOU THE FOLLOWING DATA XXX

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PLEASE ACKNOWLEDGE RECEIPT BY IMMEDIATE RETURN OF SIGNED COPY OF THIS TRANSMITTAL RECEIVED BY DATE \_ TRANSMITTED BY Richard Mcknight

